

ASSOCIATED INVESTIGATION REPORT ASSOCIATED PLATING COMPANY, INC. 9636 ANN STREET SANTA FE SPRINGS, CALIFORNIA 90670

APRIL 19, 2002

URS

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FINAL SUBSURFACE INVESTIGATION REPORT ASSOCIATED PLATING COMPANY, INC. FACILITY 9636 ANN STREET SANTA FE SPRINGS, CALIFORNIA

CERTIFICATION

This Report was prepared by the staff of URS Corporation (URS), and reviewed by the Geologist whose signature and license appears hereon.

The services performed by URS have been conducted in a manner consistent with the level of care and skill ordinarily exercised by members of our profession currently practicing under similar conditions in California. No other warranty is expressed or implied.

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Project Number: 59-00115133.01

Final Subsurface Investigation Report

Associated Plating Company, Inc. 9636 Ann Street

Santa Fe Springs, California

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No. 6221

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EXECUTIVE SUMMARY

URS Corporation (URS) completed 14 shallow borings (B-1 through B-9, B-11, B-12 and BG-1 through BG-3) and one deep boring (B-10) at the Associated Plating Company Facility (APC) located in Santa Fe Springs, California. The Subsurface Investigation was conducted as per the California Department of Toxic Substances Control (DTSC) approved Further Investigation Workplan, Associated Plating Company, Inc., 9636 Ann Street, Santa Fe Springs, California (URS, October 24, 2001), and the Interim Measures Workplan Addendum, Associated Plating Company, Inc., 9636 Ann Street, Santa Fe Springs, California (URS, December 7, 2001). The Investigation was completed during two field events, the first in November 2001 and the second in February 2002.

APC is a specialty plating shop for small components and specializes in the use of fused tin and tin/lead alloys using electro- and electroless plating. The Investigation intended to assess onsite soils at the Facility that may have been impacted by wastewater containing metals and/or cyanide, as well as degreasing solvents and acids. URS mobilized to the Facility on November 1, 2001 for placement of soil borings B-1 through B-9 and BG-1 through BG-3. During the first sampling event, URS was not able to complete the Investigation as originally intended in the Workplan. Borings could not be driven to their desired depths due to refusal, and three of 12 borings could not be installed due to surface concrete thickness being too great.

Based on field conditions and preliminary laboratory results, URS drafted and submitted an Addendum to DTSC proposing to relocate borings B-3 and B-5 and add boring B-10. Boring B-10 would be extended beyond the subsurface obstruction to groundwater in the vicinity of boring B-1. DTSC approved the Addendum with the provision that borings B-3 and B-5 be completed as proposed in the Workplan and two additional borings (B-11 and B-12) be added to the sampling program.



On February 20, 2002 URS installed soil borings B-3 through B-5, B-11, and B-12. Refusal due to subsurface obstruction was encountered in all five borings at 7 feet bgs, as expected. URS attempted to "hammer through" the obstruction at boring location B-5 but was unsuccessful. Concrete fragments found in the tip of the hammer rod upon extraction indicated a subsurface concrete slab.

The Investigation field program continued on February 21, 2002 with placement of soil boring B-10. Boring B-10 was driven with the use of a hollow stem auger drilling rig to 7-feet bgs, where refusal was encountered. A concrete bit was used to drill through the subsurface concrete slab and the boring was driven into groundwater at 37-feet bgs. A "grab" groundwater sample was collected using a Teflon bailer. The following were the most significant observations made during the field portion of the investigation:

- Heavy hydrocarbon staining and odor were found in soils from all borings in the top 5 to 10 feet of soil column;
- Refusal was uniformly found at depths between 6 feet and 9 feet bgs, indicating that a
 concrete slab is likely present beneath the entire Facility;
- Thickness of the subsurface concrete slab is approximately 4-inches in the vicinity of boring B-10;
- Gasoline odor and staining were encountered below 20-feet bgs in boring B-10;
- Groundwater was encountered at 37-feet bgs in boring B-10; and
- Floating free product was detected in groundwater at boring B-10.



Soil samples collected were analyzed for volatile organic compounds (VOCs) by EPA Method 8260B and for total petroleum hydrocarbons, carbon chain C₆ through C₄₀, by EPA Method 8015M. In addition, per the Workplan, a select group of samples were analyzed for pH by EPA Method 9040/9045, Title 22 Metals by EPA Method 6010/7000, semi volatile organic compounds by EPA Method 8270C, and Cyanide by EPA Method 9014. The groundwater sample was analyzed for VOCs. The following is a summary of laboratory results:

- Cyanide was not present in subsurface soils at the locations sampled;
- Metals and pH were within acceptable levels at the locations sampled and were similar to background levels;
- Chlorinated VOCs that included tetrachloroethene (PCE), trichloroethene (TCE), cis-1,2-dichloroethene (cis-1,2-DCE), trans-1,2-dichloroethene (trans-1,2-DCE), 1,1-dichloroethene (1,1-DCE), 1,1-dichloroethane (1,1-DCA), vinyl chloride (VC), 1,1,2,2-tetrachloroethane (1,1,2,2-TTCA), bromodichloromethane (BDCM), and chloroform were present in shallow on-site soils;
- Vinyl chloride was the only chlorinated VOC constituent detected in the groundwater sample;
- TPH, including volatile fuel constituents benzene, ethylbenzene, xylenes and toluene (BTEX), n-butyl-benzene, sec-butyl-benzene, tert-butyl-benzene, isopropyl-benzene, n-propyl-benzene, 1,3,5-trimethylbenzene, 1,2,4-trimethylbenzene, p-isopropyl-toluene, and naphthalene were detected in soils; and
- Fuel constituents were detected in groundwater.



Laboratory results indicate that cyanide was not present in subsurface soils at the locations sampled. Likewise, metals and pH were within acceptable levels at the locations sampled and were similar to background levels. Therefore, the conclusion can be drawn that at the locations sampled, releases of cyanide, metals, or acidic solutions have not occurred.

Laboratory results suggest that chlorinated VOCs, have impacted shallow subsurface soils at three distinct locations: (1) immediately north of the degreasing room (boring B6); (2) adjacent to the southeast corner of the onsite building (borings B1, B2, B9); and (3) to the east of the onsite building, in the loading and storage area (boring B12). The extent of VOC impacts appears localized and in most locations does not extend beyond 5 bgs. The distribution of chlorinated VOCs appears to be consistent with degradation of PCE under anaerobic conditions, which typically de-chlorinates PCE to TCE, and TCE to DCE. As of December 31, 2001 APC no longer stores PCE on-site, nor is it used in manufacturing operations.

Hydrocarbon impacts, including volatile fuel constituents, are not likely related to onsite operations. Associated Plating Company has no history of handling, storage, or use of these compounds. In addition, the APC property and surrounding vicinity is known to have been part of former oil-field-related operations and a Tosco (former Unocal) facility is located to the immediate south of APC.



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1.0 INTRODUCTION

URS Corporation (URS) has prepared this Subsurface Investigation Report on behalf of Associated Plating Company, Inc. for the Associated Plating Company Facility (APC) located in Santa Fe Springs, California. This Subsurface Investigation event (Investigation) was conducted as per the California Department of Toxic Substances Control (DTSC) approved Further Investigation Workplan, Associated Plating Company, Inc., 9636 Ann Street, Santa Fe Springs, California (Workplan) [URS, October 24, 2001) and the Interim Measures Workplan Addendum, Associated Plating Company, Inc., 9636 Ann Street, Santa Fe Springs, California (Addendum) [URS, December 7, 2001]. During field activities conducted November 2001 and February 2002, URS completed 15 shallow borings (B-1 through B-9, B-11, B-12 and BG-1 through BG-3) and one deep boring to groundwater (B-10).

2.0 SITE DESCRIPTION

The APC Facility (Facility) is located at 9636 Ann Street in Santa Fe Springs, California (Figure 1). The Facility is 1.25-acres in size and is currently occupied by an approximately 17,000 square-foot concrete tilt-up building on the southwest portion of the Facility. Parking spaces are provided to the immediate north of the building and on the northeast portion of the property. At the time of the investigations, the southeast portion of the Facility (0.30-acres) was unimproved vacant land (Figure 2).

The nearest cross streets to the Facility are Sorensen Avenue to the north and Santa Fe Springs Road to the east. Land contiguous to the site is used for industrial purposes in all directions. Of particular interest is a Tosco (former Unocal) facility to the immediate south of APC (9645 South Santa Fe Springs Road). No residential areas are in the immediate vicinity of APC.



The Facility is a specialty plating shop for small components and specializes in the use of fused tin and tin/lead alloys using electro- and electroless plating. Nickel and copper are the most commonly used metals. Precious metal plating is also performed using silver, gold, tin, zinc, and aluminum. Several plating lines with associated tanks are located within the Facility.

3.0 SITE HISTORY

According to a Phase I Environmental Site Assessment report prepared for the Facility by Dames & Moore (September 28, 1999), the original building permit for the site was issued in 1971 to Grubb Construction for a 17,000 square-foot concrete building. Remodeling permits were issued to Dyn Electronics in 1971 and 1972 and the Facility was used for office and warehouse space. The Golnick family (former operators of APC) purchased the property in 1977 and began plating operations in 1978. Prior to 1971, the land was undeveloped with the exception of a large oil-field-related aboveground storage tank (AST). The AST appears to have been situated over the entire Facility and vicinity in the 1930's.

4.0 GEOLOGIC & HYDROLOGIC SETTING

The Facility is located on the eastern or Downey Plain portion of the Los Angeles Coastal Plain, which slopes gently to the south and has low relief. The present topography is a result of coalescing alluvial fans of the Rio Hondo, San Gabriel, and Los Angeles rivers. The Downey Plain is bordered by the Montebello Plain to the north and east, and the Newport-Inglewood uplift to the southwest (California Department of Water Resources (CDWR), 1961).

Topographic map coverage of the site is provided by the U.S. Geological Survey (USGS), Whittier, California 7.5 minute quadrangle map dated 1965 and photorevised in 1981.



The elevation of the property is approximately 150 feet above mean sea level (msl) with a local topographic gradient of less than 20 feet per mile to the southeast.

Regional and surface water drainage appears to flow west to the San Gabriel River. The nearest surface water or drainage course is La Canada Verde Creek (Coyote Creek) located approximately ½ mile to the east. This drainage course is a concrete-lined channel used for flood control in the winter months, and has little effect on local groundwater conditions. No large water bodies are located near the property.

First encountered groundwater beneath the Facility is found between 35 and 40 feet below ground surface (bgs) [Refer to Section 6.5]. No groundwater well information was available for the Facility or sites in the near vicinity. Therefore, groundwater flow direction is assumed to be in the general direction of slope, to the southeast.

5.0 INVESTIGATION OBJECTIVES

Per the approved Workplan, this Investigation intended to assess onsite soils at the Facility that may have been impacted by wastewater containing metals and/or cyanide, as well as degreasing solvents and acids. Field conditions dictated that the Investigation be completed in two separate events, the first on November 1, 2001 and the second on February 20 and 21, 2002. The following table summarizes soil borings placement, intended sample depths, and the number of soil samples originally proposed from each boring.



Target Area	Boring	Sample Depths	Number of samples
	Identification	(feet bgs)	to be collected
	B-1	0.5-1, 4.5-5, 9.5-10	3
	B-2	0.5-1, 4.5-5, 9.5-10	3
Wastewater Treatment	B-3	0.5-1, 4.5-5, 9.5-10	3
	B-4	0.5-1, 4.5-5, 9.5-10	3
	B-5	0.5-1, 4.5-5, 9.5-10	3
Danneger & Elean	B-6	0.5-1, 4.5-5, 9.5-10	3
Degreaser & Floor Trenches	B-7	0.5-1, 4.5-5	2
Trenches	B-8	0.5-1, 4.5-5	2
Chemical Storage	B-9	0.5-1, 4.5-5	2
Soils Below Subsurface	B-10	0.5, 5, 10, 15, 20,	7
Concrete Obstruction		25, 30	
Loading/Storage	B-11	0.5-1, 4.5-5, 9.5-10	3
Loating/Storage	B-12	0.5-1, 4.5-5, 9.5-10	3
	BG-1	0.5-1, 4.5-5, 9.5-10	3
Background	BG-2	0.5-1, 4.5-5, 9.5-10	3
	BG-3	0.5-1, 4.5-5, 9.5-10	3

Soil borings B-1 through B-5 intended to assess soils in the vicinity of the wastewater treatment units on the southern portion of the Facility. Borings B-6 through B-8 intended to assess soils in the vicinity of the degreasing room and floor trenches inside the central-southern portion of the Facility. Boring B-9 intended to address soils in the vicinity of the chemical storage area just outside the southeast corner of the onsite building. Boring B-10 intended to address soils beneath a concrete obstruction encountered in all but one of the borings (Section 6.4). Borings B-11 and B-12 intended to address soils to the east of the onsite building in the storage and loading area. Borings BG-1 through BG-3 were background borings.



6.0 FIELD METHODOLOGY

This section presents general field procedures and observations recorded during placement of 15 onsite soil borings on November 1, 2001, February 20, and February 21, 2002. Background information, as well as sampling strategy, investigative methods and procedures, sample analysis program, sample handling, decontamination procedures, and management of investigative wastes, are detailed in the approved Workplan and Addendum provided in Appendix A.

6.1 Geophysical Clearance of Boring Locations

Prior to fieldwork initiation, proposed boring locations were clearly marked in white paint and checked for subsurface obstructions. During the first sampling event, proposed boring locations were cleared on October 10, 2001 by Spectrum Geophysics. During the second sampling event, proposed boring locations were cleared on February 15, 2002 by Goldak, Inc. No major modifications to sampling locations were made.

6.2 Health and Safety Plan

URS prepared a site-specific Health and Safety Plan (HSP) identifying personal protective equipment (PPE), safety procedures, decontamination procedures, lead personnel with their contact telephone numbers, and a hospital route map. Prior to commencing drilling activities (November 1, 2001 and February 20, 2002), field personnel were briefed on safety procedures and allowed to review the HSP. Questions pertaining to the HSP were answered by the Project Manager and personnel were required to sign a document stating that they clearly understood project hazards and emergency procedures.

6.3 Field Data

During drilling and sampling operations, a RAE Systems Inc. photoionization detector (PID) [MiniRAE] was used to monitor the presence and level of volatile organic vapors



in the borings and to screen soil samples for health and safety purposes. The data was recorded in the boring logs and was used as an immediate indicator of volatile organic vapors in subsurface materials.

Boring logs were prepared during soil sampling to provide a lithologic description of soils encountered during the Investigation. Boring logs were prepared in accordance with the Unified Soils Classification System (USCS), and provided descriptions of visible evidence of soil contamination (i.e., odor, staining) and PID readings. Soil borings are presented in Appendix B.

The PID was calibrated prior to beginning each day of fieldwork to display concentration in units equivalent to parts per million (ppm). The PID used at the Facility was equipped with a 10.6 eV lamp.

6.4 Initial Field Investigation – November 2001

URS mobilized to the Facility on November 1, 2001 for placement of soil borings B-1 through B-9 and BG-1 through BG-3. Vironex, Inc. of Santa Ana, California provided drilling services with the use of a limited access hydraulic push-probe drilling rig (Geoprobe Badger 66DT). Soil borings were advanced to depths ranging from 5 to 10 feet bgs. A soil sampler, fitted with 1¾ -inch diameter, 2-foot long acetate sample sleeves, was used to retrieve undisturbed soil samples from desired depths. Following retrieval of soil, a portion of the sleeve containing the desired sample depth was cut, the exposed soil at each end covered with Teflon™ sheeting and fitted with plastic end caps. In addition, soil samples were also sub-cored using EnCore™ samplers in accordance with EPA Method 5035 for analysis of volatile organic compounds (VOCs).

Mr. Edward T. Cieslak and Mr. Nebu John, both DTSC representatives, were onsite during portions of the November 1, 2001 field activities to view soil conditions and field procedures.



6.4.1 Placement of Borings

The Investigation began with placement of boring BG-3 at the southeast portion of the Facility. This was followed by borings BG-2, B-9, B-1, B-3, B-4, B-2, BG-1, B-8, B-7, and B-6. Only borings BG-3, B-7, B-8, and B-9 were driven to the intended total depths. The rest of the borings encountered refusal on a subsurface obstruction at 6 to 8 feet below ground surface (bgs).

6.4.2 Lithology

Fine-grained, uniform sandy silts to clayey silts that were plastic, moist, and stained with heavy hydrocarbons were encountered in all borings. Soils encountered in borings BG-2 and BG-3 on the eastern portion of the Facility had angular clastics to ¼-inch from the ground surface to approximately 5 feet bgs. Boring logs are included as Appendix B.

6.4.3 Initial Field Observations

The following were the most significant observations made during fieldwork on November 1, 2001:

- Heavy hydrocarbon staining and odor were found in soils from all borings in the top 5 to 10 feet of the soil column;
- Refusal was uniformly found at depths between 6 feet and 9 feet bgs, indicating that
 the concrete footing for the former AST discussed in Section 3.0 is likely still present
 beneath the entire Facility; and
- Surface concrete thickness in excess of 12-inches did not allow for the placement of borings B3 through B5 in the southern portion of the Facility.



6.4.4 Initial Conclusions & Addendum

During the first sampling event, URS was not able to complete the Investigation as originally intended in the Workplan. Borings could not be driven to their desired depths due to refusal, and three of 12 borings could not be installed due to surface concrete thickness being too great. In addition, based on initial laboratory data (discussed in Section 7.0), URS proposed the addition of two soil borings to the immediate east of the onsite building, as well as the evaluation of soil and groundwater conditions beneath the onsite obstruction (generally 6 to 7 feet bgs near the building).

Based on these conclusions, URS drafted and submitted an Addendum to DTSC on December 7, 2001 for their review and approval. The Addendum proposed to relocate borings B-3 and B-5 and add boring B-10. Boring B-10 would be extended beyond the subsurface obstruction to groundwater in the vicinity of boring B-1.

DTSC approved the Addendum in a letter dated February 8, 2002 with the provision that borings B-3 and B-5 be completed as proposed in the Workplan. In addition, DTSC requested that two additional borings (B-11 and B-12) be added to the sampling program. (Appendix A).

6.5 Additional Field Investigation – February 2002

URS mobilized to the Facility on February 20, 2002 for placement of soil borings B-3 through B-5, B-11, and B-12, in accordance with the approved Addendum. Interphase Environmental, Inc. of Los Angeles, California provided drilling services with the use of a limited access hydraulic push-probe drilling rig. All five soil borings were advanced to 7 feet bgs, whereupon refusal due to subsurface obstruction was encountered in all borings. URS attempted to "hammer through" the obstruction at boring location B-5 but was unsuccessful. Concrete fragments were found in the tip of the hammer rod upon



extraction, indicating a concrete slab, as suspected (Section 3.0). Field procedures for soil sample retrieval and sampling were consistent with the Workplan.

The Investigation field program concluded on February 21, 2002 with placement of soil boring B-10. Excel Drilling, Inc. of Huntington Beach, California provided drilling services with the use of a CME-75 hollow-stem-auger (HSA) truck mounted drilling rig equipped with 6-inch augers. Boring B-10 was driven to 7-feet bgs, where refusal was encountered as expected. A concrete bit was used to drill through the subsurface concrete slab and the boring was driven into groundwater at 37-feet bgs.

During advancement of boring B-10, undisturbed soil samples were collected in clean, 6-inch brass tubes using a California modified split-spoon sampler. Soil samples were also sub-cored using EnCore™ samplers as described in Section 6.4. A "grab" groundwater sample was collected using a new Teflon bailer. Groundwater was poured into three (3) laboratory supplied 40-milliliter (ml) VOAs for analysis.

6.5.1 Placement of Borings

Prior to the placement of borings B-3 through B-5, URS contracted with Rice's Concrete Cutting Services, Inc. of Long Beach, California, to core through the surface concrete. Concrete thickness encountered at the location of borings B-3 through B-5 ranged from 14 to 18-inches in thickness.

During fieldwork of February 20, URS began by installing boring B-5, and continued with borings B-4, B-3, B-11 and B-12, in that order. As expected, refusal was encountered at 7-feet bgs in all borings, short of their intended final depth.

The Investigation continued on February 21 with the placement of boring B-10 using an HSA drilling rig. As described above, the boring was driven to the subsurface concrete slab (7 feet bgs) and allowed to stand for 30 minutes to gauge for perched water. The



hammer was then cleaned and lowered into the boring to see if appreciable amounts of water had gathered at the bottom. None was detected.

The augers were then extracted from the hole and the auger bit replaced with a concrete bit to penetrate through the subsurface slab. The slab proved to be approximately 4-inches thick. Once the slab was penetrated, the concrete bit was again replaced with the drilling bit and the boring was continued. Gasoline odor and staining were encountered at 20-feet bgs. Saturated conditions were detected at 37-feet bgs and the boring was extended to 40-feet bgs. A new Teflon bailer was dropped through the center of the augers in order to retrieve a groundwater sample. Based on field observations, free floating product was present at the groundwater surface. URS could not ascertain the thickness.

6.5.2 Observations

The following were the most significant observations made during fieldwork on February 20 and 21, 2001:

- Thickness of the surface concrete slab along the southern property boundary ranges from 14 to 18 inches;
- Thickness of the subsurface concrete slab is approximately 4-inches in the vicinity of boring B-10;
- Gasoline odor and staining were encountered below 20-feet bgs in boring B-10;
- Groundwater was encountered at 37-feet bgs in boring B-10; and
- Floating free product was detected in groundwater at boring B-10.



6.6 Chain-of-Custody Procedures

After collection, samples were placed in a cooler with ice to await transportation to a state certified laboratory. Samples were transported under strict chain-of-custody documentation as described below. For purposes of this Investigation, custody was defined as follows:

- In plain view of URS field representatives;
- Inside a cooler which was in plain view of URS field representatives; or
- Inside any locked space such as a cooler, locker, car, truck, or storage room to which field representatives had the only immediately available key(s).

Chain-of-custody records were maintained for samples recovered and were signed by the sampler and others who took custody of the samples.

A designated sample custodian from the laboratory accepted custody of shipped samples and verified that the chain of custody forms matched the samples received. Each batch of samples was given a laboratory number and each sample was assigned a unique sequential identification number. The custodian was responsible for seeing that samples were transferred to the proper analyst or stored in an appropriate secured area.

6.7 Equipment Decontamination Procedures

Re-usable drilling and sampling equipment was cleaned prior to use to reduce the potential for cross contamination. Drill sections and other down-hole implements used during drilling were cleaned prior to use at each boring location.



Between each sample collection, the sampler was disassembled, cleaned, and decontaminated. Cleaning and decontamination procedures consisted of washing the sampling equipment with a solution of water and a detergent, followed by two water rinses and air-drying.

7.0 LABORATORY ANALYSIS AND RESULTS

Soil and groundwater samples collected during the course of this investigation were submitted to a California-certified analytical laboratory. As per the Workplan and subsequent Addendum, soil samples collected were analyzed for VOCs by EPA Method 8260B and for total petroleum hydrocarbons (TPH), carbon chain C₆ through C₄₀, by EPA Method 8015M. In addition, a select group of samples were analyzed for pH by EPA Method 9040/9045, Title 22 Metals by EPA Method 6010/7000, semi volatile organic compounds (SVOCs) by EPA Method 8270C, and Cyanide by EPA Method 9014. Rationale is provided in the Workplan in Appendix A. Table 1 provides a list of all samples collected and the analyses requested for each.

The groundwater sample collected from boring B-10 was analyzed for VOCs. A summary of analytical results is included in Tables 2 through 6, and the complete analytical results, including laboratory QA/QC, are presented in Appendix C.

7.I Total Chlorinated VOCs

With the exception of three soil samples collected from boring B-10 (15, 25, and 35-foot bgs samples), samples, including the groundwater sample, were analyzed for VOCs.

7.1.1 Soils

Analytical laboratory results for 27 of 40 soil samples reported the presence of detectable concentrations of various chlorinated VOCs that included tetrachloroethene (PCE),



trichloroethene (TCE), cis-1,2-dichloroethene (cis-1,2-DCE), trans-1,2-dichloroethene (trans-1,2-DCE), 1,1-dichloroethene (1,1-DCE), 1,1-dichloroethane (1,1-DCA), vinyl chloride (VC), 1,1,2,2-tetrachloroethane (1,1,2,2-TTCA), bromodichloromethane (BDCM), and chloroform). Soil sample concentrations of total chlorinated VOCs ranged from ND to 35,000 μ g/kg.

7.1.2 Groundwater

The grab groundwater sample collected from boring B-10 had a reported VC concentration of 69 μ g/L. This was the only chlorinated VOC constituent detected in groundwater.

7.2 TPH & Fuel Constituents

As was noted throughout Section 6.0, heavy staining and heavy hydrocarbon odor were found in shallow soils throughout the Facility. It was also noted that strong gasoline odor and floating free product were encountered in boring B-10. Due to the fact that (1) the Facility was formerly occupied by a large oil-field-related AST, (2) fuels are not presently nor have they historically been stored or handled at the APC Facility, and (3) to the immediate south of the APC property is a Tosco (former Unocal) facility, URS concludes that the hydrocarbon and fuel constituents are likely unrelated to the APC operations.

7.2.1 Soils

Analytical laboratory results for 19 of 30 soil samples reported the presence of detectable concentrations of TPH. Soil sample concentrations of TPH ranged from ND to 6,200 mg/kg.

In addition, various volatile fuel constituents, including benzene, ethylbenzene, xylenes and toluene (BTEX), n-butyl-benzene, sec-butyl-benzene, tert-butyl-benzene, isopropyl-



benzene, n-propyl-benzene, 1,3,5-trimethylbenzene, 1,2,4-trimethylbenzene, p-isopropyl-toluene and naphthalene, were detected in soils.

7.2.1 Groundwater

The analytical laboratory results for the groundwater sample reported various volatile fuel constituents, including sec-butyl-benzene, tert-butyl-benzene, isopropylbenzene, n-propylbenzene, and naphthalene.

7.3 Tetrachloroethene (PCE)

PCE was reported in 13 soil samples at concentrations ranging from 8 μ g/kg (B8-5' and B9-5') to 35,000 μ g/kg (B1-0.5'). The highest concentrations of PCE were reported for soil samples collected from outside the southeast corner of the building and adjacent to the degreasing room (B1, B2, B-9, and B6). In addition, PCE was also reported at lower concentrations in samples collected from borings B7, B8, and B12. At most locations the PCE concentrations suggest a surface source and shallow impact.

7.4 Trichloroethene (TCE)

TCE was reported in 15 soil samples at concentrations ranging from 7 μ g/kg (B7-3', B8-0.5' and B8-5') to 4,600 μ g/kg (B6-5'). The highest concentrations of TCE were reported for soil samples collected from outside the southeast corner of the building and adjacent to the degreasing room (B1, B2, B9, and B6). In addition, TCE was also reported in samples collected from borings B7, B8, B10, B11, and B12.

7.5 Cis-1,2-DCE & Trans-1,2-DCE

Cis-1,2-DCE and trans-1,2-DCE concentrations were reported in 21 soil samples from borings B1, B2, B3, B4, B6, B8, B9, B10, B11, and B12. In boring B12, reported concentrations increased in the 5 and 7-foot bgs samples compared with the 0.5-foot



sample. The widespread presence of DCE is consistent with degradation of PCE under anaerobic conditions, which typically de-chlorinates PCE to TCE, and TCE to DCE.

7.6 Vinyl Chloride (VC)

7.6.1 Soils

VC was reported in 9 soil samples at concentrations ranging from 7.6 μ g/kg (B10-20') to 2,000 μ g/kg (B2-5').

7.6.2 Groundwater

VC was reported in the groundwater sample at a concentration of 69 μ g/L. This was the only chlorinated VOC reported.

7.7 Title 22 Metals

Metal concentrations reported for samples from borings B1 through B5 and B8 were within acceptable range and were comparable to concentrations from samples collected as background from borings BG1 through BG3. In addition, no sample concentrations exceeded the California Title 22 total threshold limit concentrations (TTLC).

7.8 pH

Reported pH for soil samples from borings B1 through B5 and B8 and B9 ranged from 7.4 to 8.3. These values are within acceptable range and do not suggest an acid spill.

7.9 Cyanide

Cyanide concentrations reported for soil samples from boring B1 and BG1 through BG3 were below the laboratory method reporting limit (MRL) of 0.5 mg/kg.



7.10 SVOCs

As is typical when encountering former oilfield related waste, URS submitted four samples with high TPH concentrations (B6-0.5', B8-5', B9-5', BG2-9') for SVOC analysis. No SVOC constituents were detected above their respective laboratory MRLs.

8.0 DISCUSSION & SUMMARY

The purpose of this Investigation was to assess soils that may have been impacted by wastewater containing metals and cyanide, as well as degreasing solvents and acids. Laboratory results indicate that cyanide was not present in subsurface soils at the locations sampled. Likewise, metals and pH were within acceptable levels at the locations sampled and were similar to background levels. Therefore, the conclusion can be drawn that at the locations sampled, releases of cyanide, metals, or acidic solutions have not occurred.

Chlorinated VOCs have impacted the subsurface soils at three distinct locations: (1) immediately north of the degreasing room (B6); (2) adjacent to the southeast corner of the onsite building (B1, B2, B9); and (3) to the east of the onsite building, in the loading and storage area (B12). The extent appears localized and in most locations does not extend beyond 5 bgs in depth. As of December 31, 2001 APC no longer stores PCE on-site, nor is it used in manufacturing operations.

Laboratory results for the groundwater sample collected at the terminus of boring B10 (37 feet bgs), reported VC at a concentration of 69 µg/L.

The detected hydrocarbon odors, staining, and fuel constituents are not likely related to onsite operations. Associated Plating Company has no history of use of these compounds.



9.0 REPORT LIMITATIONS

This report presents a summary of work completed by URS Corporation. The completed work includes observations and descriptions of site conditions. Where appropriate, it includes analytical results for samples taken during the course of the work. The number and location of samples were chosen to provide the required information, but it cannot be assumed that they are representative of areas not sampled. All conclusions and recommendations are based on these analyses, observations, and the governing regulations. Conclusions beyond those stated and reported herein should not be inferred from this document.

These services were performed in accordance with generally accepted practices in the environmental engineering field, which existed at the time and location of the work.

10.0 REFERENCES

Department of Toxic Substances Control, October 31, 2001, Correspondence, "Revised Interim Measures Workplan for Associated Plating Company Facility, 9636 Ann Street, Santa Fe Springs, California", EPA ID CAD043079110.

Department of Toxic Substances Control, February 8, 2002, Correspondence, "Interim Measures Workplan Addendum for Associated Plating Company Facility, 9636 Ann Street, Santa Fe Springs, California", EPA ID CAD043079110.

URS Corporation, October 24, 2001, "Further Investigation Workplan, Associated Plating Company, Inc., 9636 Ann Street, Santa Fe Springs, California".



URS Corporation, December 7, 2001, "Interim Measures Workplan Addendum, Associated Plating Company, Inc., 9636 Ann Street, Santa Fe Springs, California".

G:Waiin Directory/Projects/S9-00115133-01 Associated Santa Fe Springs Rem Inv/Investigation Report/Final/Subsurface Investigation Final Report/01.doc

TABLE

TABLES

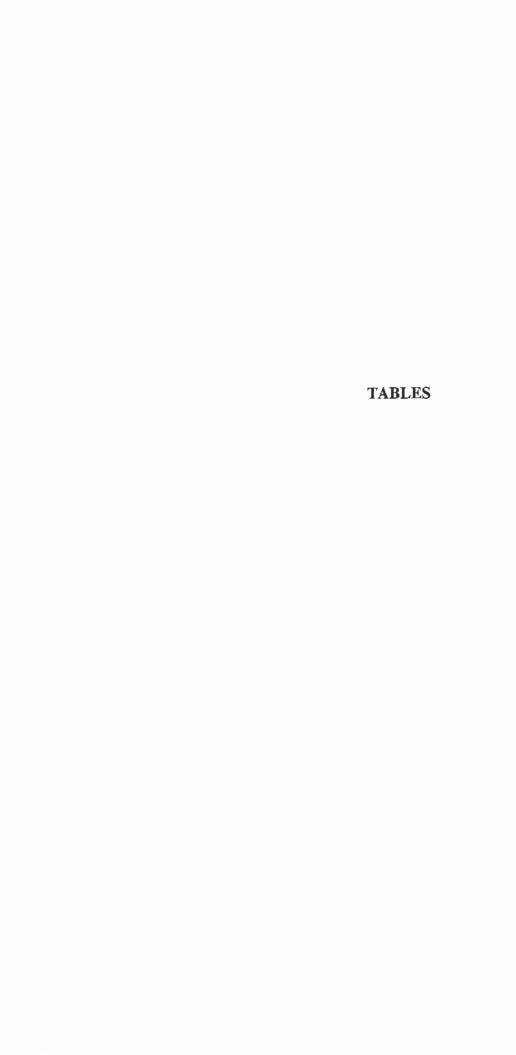


TABLE 1 SOIL SAMPLE LABORATORY ANALYSES ASSOCIATED PLATING SANTA FE SPRINGS, CALIFORNIA

Boring	Sample Depth (feet bgs)	VOCs EPA 8260B	TPH EPA 8015M	Title 22 Metals	pH EPA 9045	Cyanide EPA 9010	SVOCs EPA 8270
B-1	0.5	V	V	V	V	V	
D-1	5	V	-		~	· · ·	
B-2	0.5	~	V	~	V		
D+2	5	V	v	V	~		
B-3	1.5	V	V	V	V		
D-3	5	V	V		~		
B-4	1	V		V	V		
D-4	5	~	V	V.	V	-	
B-5	- 1	V	V	V	V		
D-3	5	-	V	V	V		
0.0	0.5	V	- 4				V
8-6	5	V	v	17		1	
B-7	3	V	v				
D-/	5	~	2				
B-8	0.5	~	V	4	V		
D-0	5	-	V	V	V	1	
B-9	0.5	V	V		-		
B-9	5	~			~		V
	0.5	V					
	5	~					
	10	V	V				
B-10	15						
B-10	20	V	V	19		1	
	25						10
	30	V	V				
	35					-	
	0.5	V	100				
B-11	5	V					
	7	-					

TABLE 1
SOIL SAMPLE LABORATORY ANALYSES
ASSOCIATED PLATING
SANTA FE SPRINGS, CALIFORNIA

Boring	Sample Depth (feet bgs)	VOCs EPA 8260B	TPH EPA 8015M	Title 22 Metals	pH EPA 9045	Cyanide EPA 9010	SVOCs EPA 8270
	0.5	~					
B-12	5	~					
	7	V			1		
004	0.5	~		V	V	-	
BG-1	5	~	-	V	-	~	
	0.5	V.	V	V	V	~	
BG-2	5	V	v	1	V	V	
	9	V	~	V	~	V	V
	0.5	v	V	V	~	· ·	
BG-3	5	· ·	V	~	~	V	
	10	V	V	V	V	~	

Table 2 EPA 8260B - CVOCs Soil Analytical Results Associated Plating Santa Fe Springs, CA

Boring	Sample Depth ¹	PCE	TCE	1,1,2,2- TTCA	cis-1,2- DCE	trans-1,2- DCE	1,1-DCE	1,1-DCA	VC	BDCM	Chloroform
	0.5	35000	1500	ND	980	220	ND	ND	18	ND	ND
B1	5	ND	ND	ND	ND	ND ND	ND	ND	ND	ND	ND
	0.5	4100	2800	ND	820	240	16	ND	110	ND	ND
B2	5	85	12	ND	210	320	ND	30	2000	ND	ND
	1.5	ND	ND ND	17	ND ND	ND ND	ND	ND ND	ND	ND	ND
B3	5	ND	ND	ND	5.3	ND	ND	ND	ND	ND	ND
	1	ND	ND	ND	310	47	ND	ND	ND	ND	ND
B4	5	ND	ND	ND	100	13	ND	ND	ND	ND	ND
B5	1	ND	ND	ND	ND	ND ND	ND		ND	ND	ND
B55 ^z		ND	ND ND					ND			
D00	1	ND ND		ND	ND	ND	ND	ND	ND	ND	ND
	5	10	ND	ND	ND	ND	ND	ND	ND	ND	ND
B6	0.5		20	ND	4200	1100	50	120	20	ND	ND
	5	2600	4600	ND	4100	880	90	160	20	ND	ND
B7	3	16	7	ND	ND	ND	ND	ND	ND	ND	ND
	5	9	ND	ND	ND	ND	ND	ND	ND	ND	ND
B8	0.5	56	7	ND	ND	ND	ND	ND	ND	ND	ND
	5	8	7	ND	6	ND	ND	ND	ND	ND	ND
B9	0.5	1100	2200	ND	880	400	ND	ND	ND	ND	ND
	5	8	ND	ND	450	110	ND	ND	ND	ND	ND
B10	0.5	ND	96	ND	250	22	ND	ND	ND	ND	ND
B210 ³	0.5	ND	150	ND	350	28	ND	ND	ND	6.1	6.0
	5	ND	55	ND	280	39	ND	18	300	ND	ND
	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	20	ND	ND	ND	6.1	ND	ND	ND	7.6	ND	ND
	30	ND	ND	ND	ND	ND	ND	ND	ND.	ND_	ND
	0.5	ND	9.1	ND	72	5.2	ND	ND	54	ND	ND
B11	5	ND	ND	ND	ND	ND	ND	ND	67	ND	ND
	7	ND	ND	ND	47	ND	ND	ND	ND	ND	ND
B12	0.5	430	72	ND	22	ND	ND	ND	ND	ND	ND
B212*	0.5	440	63	ND	20	ND	ND	ND	ND	ND	ND
	5	ND	ND	11	420	150	ND	ND	ND	ND	ND
	7	ND	ND	ND	300	150	ND	ND	ND	ND	ND
BG1	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
bui	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BG2	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BG3	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

¹ all sample depths in feet below ground surface, ² denotes duplicate of 1-foot sample collected from 85, ³ denotes duplicate of 0.5-foot sample collected from 810, ⁴ denotes duplicate of 0.5-foot sample collected from B12

PCE=Tetrachloroethene, TCE=Trichloroethene, TTCA=Tetrachloroethene, DCE=Dichloroethene, DCA=Dichloroethane, VC=Vinyl Chloride, BDCM=Bromodichloromethane

All sample results in micrograms/kilogram (ug/kg), ND denotes analyte not detected about the laboratory reporting limit

Table 3
EPA 8015M
Soll Analytical Results
Associated Pleting
Senta Fe Springs, CA

Boring	Depth 1	C6-C10	C10-C28	C28-C40
B1	0.5	ND	ND	ND
	5	97	570	620
B2	0.5	ND	ND	ND
	5	140	640	580
B3	1.5	230	910	860
	5	ND	ND	ND
B4	1	ND	ND	ND
	5	61	140	180
B5	1	1200	4100	2600
B55 ²	1	1700	6200	4200
	5	100	330	550
B6	0.5	520	2100	2000
	5	ND	14	ND
B7	3	ND	ND	ND
	5	23	25	ND
B8	0.5	80	530	550
	5	500	2400	2000
B9	0.5	ND	ND	ND
	5	850	3800	3000
B10	10	ND	ND	ND
	20	410	430	ND
	30	770	1500	ND
BG1	0.5	ND	ND	ND
	5	ND	ND	ND
BG2	0.5	ND	ND	ND
	5	ND	ND	ND
	9	303	1900	1600
	0.5	ND	ND	52
BG3	5	ND	ND	38
	10	89	590	480

¹ all sample depths in feet below ground surface

² denotes duplicate of 1-foot sample collected from B5 ND denotes analyte not detected about the laboratory reporting limit All results in millograms/kilogram (mg/kg)

Table 4
EPA 6260B - BTEX +
Soil Analytical Results
Associated Plating
Santa Fe Springs, CA

Boring	Sample	Benzene	n-Butyl	sec-Butyl	tert-Butyl	Ethyl	Isopropyl	p-Isopropyl	Naph-	n-Propyl	Toluene	1,3,5-	1,2,4-	0-	m&p-
3	Depth ¹		-benzene	-benzene	-benzene	-benzene	-benzene	-toluene	thalene	-benzene		TMB	TMB	Xylene	Xylene
B1	0.5	ND	9	34	6	ND	17	ND	9	14	ND	ND	ND	ND	ND
ы	5	ND	ND	ND	ND	5	ND	ND	30	6	ND	ND	ND	ND	ND
B2	0.5	ND	ND	29	ND	ND	14	ND	ND	16	45	ND	ND	ND	ND
04	5	ND	ND	40	ND	290	96	ND	400	150	ND	ND	ND	ND	ND
B3	1.5	ND	9	59	6.6	ND	73	ND	270	130	ND	ND	ND	ND	ND
53	5	ND	ND	8.5	ND	ND	21	ND	68	26	ND	ND	ND	ND	ND
B4		ND	ND	25	ND	120	48	ND	310	73	ND	ND	ND	ND	ND
	5	ND	ND	17	ND	36	18	ND	150	20	ND	ND	ND	NĎ	ND
B 5	11	ND	13	25	ND	15	12	13	94	14	ND.	34	21	ND	ND
B55*	1	ND	9.8	21	ND	12	11	8.7	70	10	ND	24	7.9	ND	ND
	5	ND	ND	ND	ND	ND	ND	ND	52	ND	ND	ND	ND	ND	ND
B6	0.5	5	43	ND	ND	ND	130	140	58	39	ND	ND	ND	ND	ND
00	5	ND	ND	24	ND	120	31	ND	78	40	23	10	22	7	15
B7	3	ND	ND	ND	ND	ND	ND	ND	71	ND	ND	ND	ND	ND	ND
D1	5	ND	ND	23	ND	7	17	ND	25	13	ND	ND	ND	ND	ND
B8	0.5	ND	ND	18	ND	ND	10	ND	10	5	ND	ND	ND	ND	ND
00	5	ND	40	100	ND	460	170	ND	1200	300	ND	ND	ND	ND	ND
B9	0.5	ND	24	31	ND	ND	20	20	ND	31	ND	32	100	ND	ND
09	5	ND	ND	31	ND	79	74	ND	360	120	ND	ND	ND	ND	ND
B10	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B210°	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	5	ND	ND	14	ND	78	31	ND	92	45	ND	ND	ND	ND	ND
	10	ND	ND	ND	ND	ND	ND	ND	16	ND	ND	ND	ND	ND	ND
	20	ND	20	26	ND	21	41	36	300	51	ND	95	410	10	230
	30	ND	25	100	ND	ND	210	ND	780	270	ND	ND	ND	ND	ND
	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B11	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	7	12	ND	25	ND	79	75	ND	410	110	ND	ND	ND	ND	ND
B12	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B212*	0.5	ND	ND	ND	ND	ND	ND	ND	16	ND	ND	ND	ND	ND	ND
	5	ND	6.9	12	ND	7.7	12	ND	140	12	ND	ND	ND	ND	ND
	7	ND	35	57	8.6	24	51	16	400	57	ND	ND	ND	ND	ND
	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BG1	5	ND	ND	ND	ND	ND	ND	ND	NĎ	ND	ND	ND	ND	ND	ND
	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BG2	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9	ND	ND	6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BG3	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10	ND	ND	29	ND	ND	11	ND	77	14	ND	ND	ND.	ND	ND

all sample depths in feet below ground surface, 2 denotes duplicate of 1-foot sample collected from B5, 3 denotes duplicate of 0.5-foot sample collected from B10,

All sample results in micrograms/kilogram (ug/kg), ND denotes analyte not detected about the laboratory reporting limit

⁴ denotes duplicate of 0.5-foot sample collected from B12

TMB=Trimethylbenzene

COMPOUNDS		TITLE 22 METALS - EPA METHOD 6000/7000 (mg/Kg)																		
	B1-0.5	B1-5'	B2-0.5'	B2-5'	B3-1.5'	B3-5'	B4-1'	B4-5'	B5-1'	B5-5'	B8-0.5'	B8-5'	BG1-0.5'	BG1-5'	BG2-0.5	BG2-5'	BG2-9'	BG3-0.5	BG3-5'	BG3-10'
Antimony	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Arsenic	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Barium	110	120	160	190	170	110	130	150	170	120	220	110	74	140	77	42	120	92	75	190
Beryllium	<1	<1	<1	<1	1.8	_ 1.1	1.3	1.6	1.7	1.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cadmium	<1	<1	<1	<1	5	3.1	3.7	4.1	4.6	3.4	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1_
Chromium	13	17	15	28	71	44	49	54	66	48	22	15	9	20	9	8	19	15	11	30
Cobait	11	13	14	17	15	10	12	12	14	11	17	11	8	16	8	5	12	11	10	15
Copper	24	25	39	42	31	23	23	30	31	23	130	20	12	27	15	10	24	20	14	40
Lead	12	13	12	14	25	15	18	20	23	16	15	9	11	16	12	9	12	12	13	19
Mercury	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<.01	<0.1
Molybdenum	2	2	1	2	<1	<1	<1	<1	<1	<1	2	1	1	2	1	1	2	2	2	2
Nickel	14	12	29	20	29	20	22	25	28	22	20	12	8	16	9	7	13	13	11	19
Selenium	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Silver	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Thallium	<2	<2	<2	<2	27	13	19	20	25	15	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Vanadium	21	33	28	47	61	36	42	48	61	42	38	23	13	43	13	9	32	20	12	47
Zinc	14	16	33	36	50	73	32	43	47	30	26	15	8	18	30	6	17	23	10	31

Note:

1. mg/Kg = milligrams per kllogram

Table 6 Soil Analytical Results Associated Plating Santa Fe Springs, CA

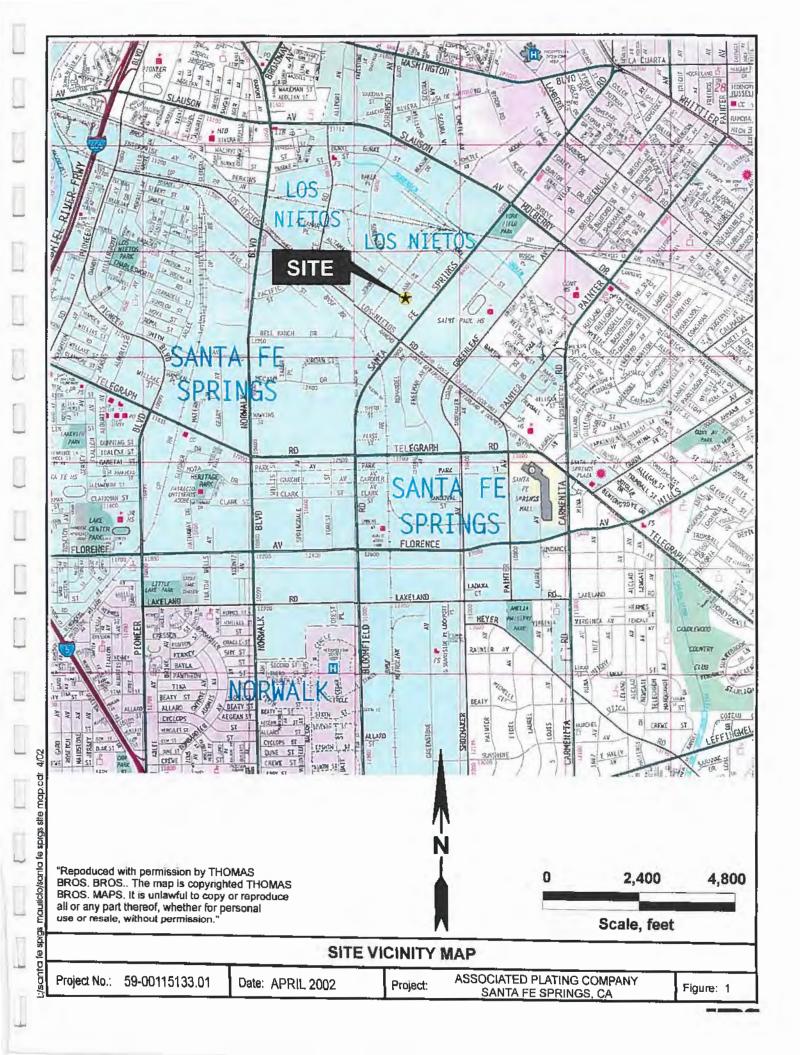
SAMPLE WITH DEPTH (BGS)	pH by EPA Method 9045 SVOCs by EPA Method 8270 Cyanide by EPA Method 9014								
	pH	SVOCs	Cyanide						
B1-0.5'	8.0	NA	<0.5						
B1-5'	7.9	NA	<0.5						
B2-0.5'	8.3	NA	NA						
B2-5'	8.0	NA	NA						
B3-1.5'	7.9	NA	NA.						
B3-5'	7.6	NA	NA						
B4-1'	7.9	NA	NA						
B4-5'	7.5	NA	NA						
B5-1'	8.7	NA	NA						
B5-5'	8.1	NA	NA						
B6-0.5'	NA	ND	NA						
B8-0.5'	8.2	NA	NA						
B8-5'	7.6	ND	NA						
B9-0.5'	8.1	NA	NA						
B9-5'	7.9	ND	NA.						
BG1-0.5'	7.8	NA	NA.						
BG1-5'	7.8	NA	NA						
BG2-0.5'	8.0	NA	NA						
BG2-5'	7.9	NA	NA						
BG2-9'	8.1	ND	NA						
BG3-0.5'	7.6	NA.	<0.5						
BG3-5'	8.0	NA	<0.5						
BG3-10'	7.9	NA	<0.5						

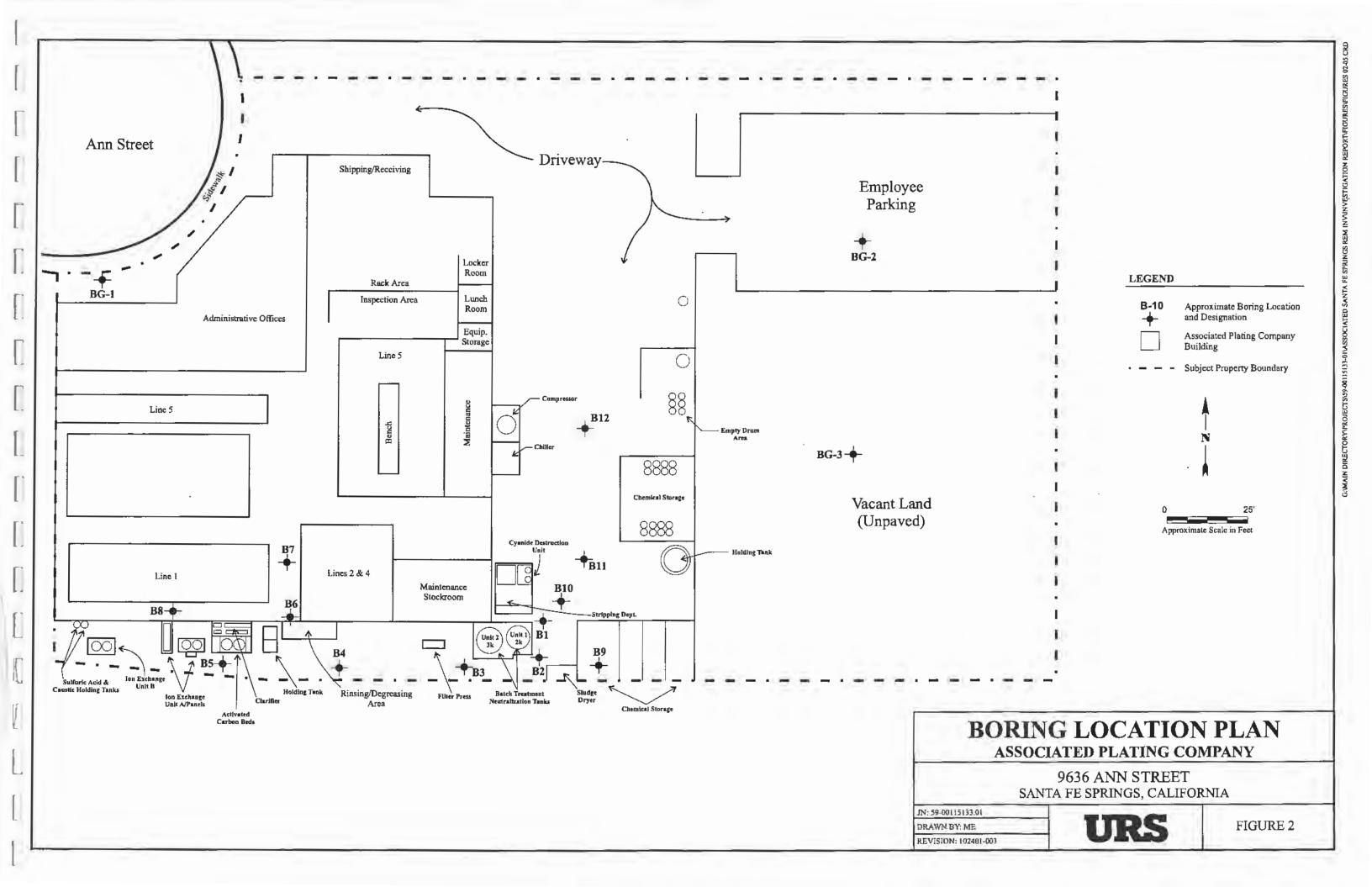
Notes:

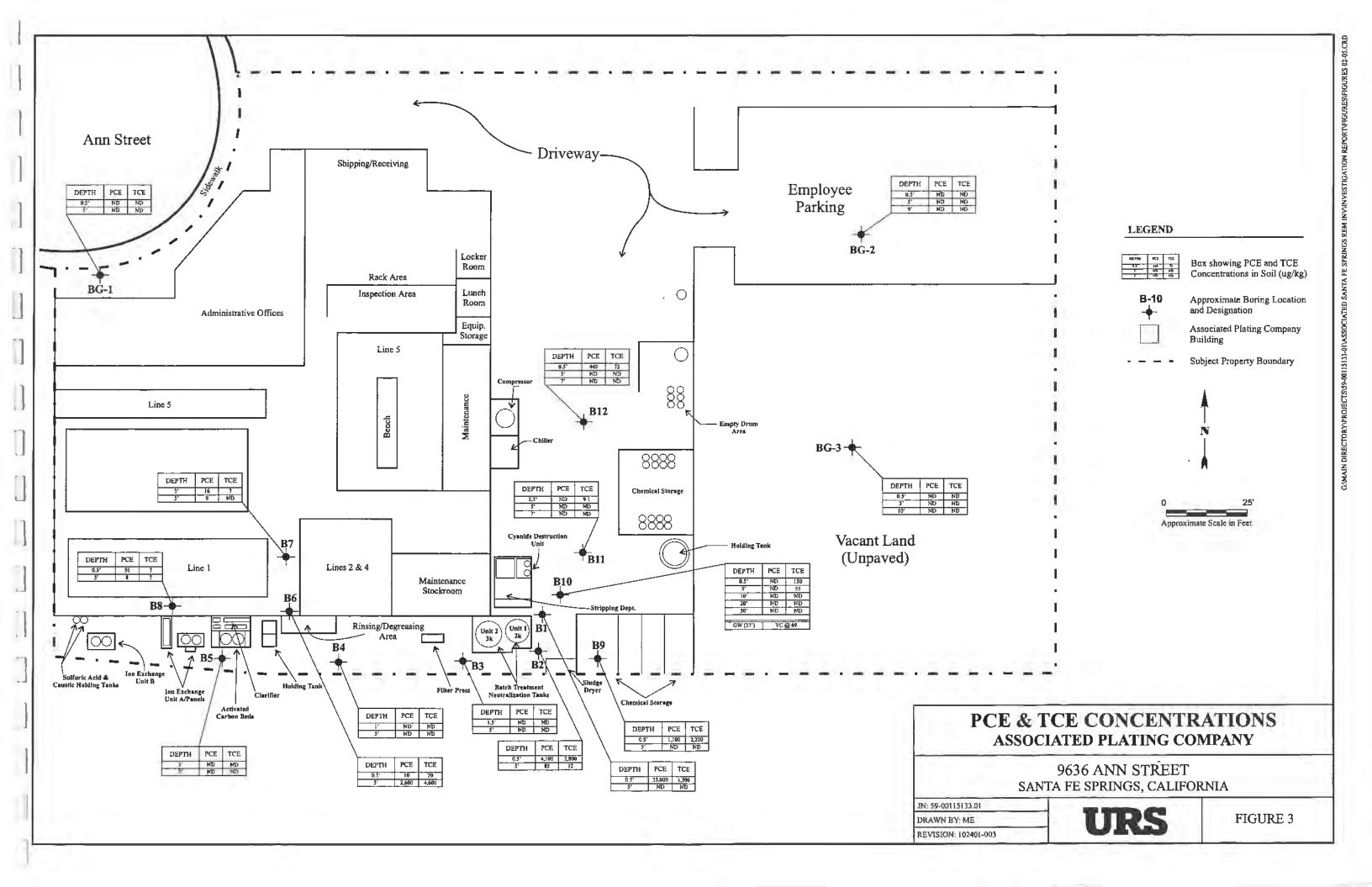
- 1. mg/Kg = milligrams per kilogram
- 2. NA = not analyzed
- 3. ND = constituents not detected above laboratory MRL

FIGURES

FIGURES







APPENDIX A

APPENDIX A WORKPLAN, ADDENDUM & DTSC CORRESPONDENSE

FURTHER INVESTIGATION WORKPLAN ASSOCIATED PLATING COMPANY, INC. 9636 ANN STREET SANTA FE SPRINGS, CALIFORNIA 90670

October 24, 2001



911 Wilshire Boulevard Suite 800 Los Angeles, California 90017 (213) 996-2200 October 24, 2001

Ms. Yvonne Sanchez
Unit Chief – State Regulatory Programs Division
Southern California Branch
Department of Toxic Substances Control
California EPA
5796 Corporate Avenue
Cypress, California 90630

Re: Further Investigation Workplan

Associated Plating Company, Inc. 9636 Ann Street
Santa Fe Springs, California 90670
EPA ID #CAD043079110
URS Project No. 22-00000149.00

Dear Ms. Sanchez:

On behalf of Associated Plating Company, Inc. (APCI), URS Corporation (URS) is pleased to submit this "Further Investigation Workplan" (Workplan) to the Department of Toxic Substances Control (DTSC). The DTSC requested preparation of such a workplan in its January 3, 2001 letter regarding its compliance evaluation inspection of November 3, 2000 and November 6, 2000. This Workplan, prepared by URS, presents our recommended scope of work and technical approach to conduct a limited subsurface investigation for the locations identified by DTSC at the facility located at 9636 Ann Street, Santa Fe Springs, California. The target locations are beneath the flocculation, pump, and boiler areas of the wastewater treatment area. This workplan is being submitted to DTSC by URS for review and approval. Based on URS meeting with Mr. Nebu John of DTSC at Associated Plating on March 2, 2001 and our meeting on April 18, 2001, boring locations were identified with DTSC personnel and the scope determined.

1.0 BACKGROUND

1.1 Background Research Findings

The Facility is located at 9636 Ann Street, Santa Fe Springs, Los Angeles County, California. The Facility consists of an approximately 18,000 square foot (sq. ft.)

building, situated on approximately 1.35 acres, located on the south curve of the Ann Street cul-de-sac, within the City of Santa Fe Springs (Figure 1).

Associated Plating Company, Inc. (Associated Plating) is a specialty plating shop for small components. Associated Plating specializes in the use of fused tin and tin/lead alloys. Electro- and electroless plating is performed. Nickel and copper are the most commonly used metals. Precious metal plating is also performed using silver, gold, tin, zinc, and aluminum. Several plating lines with associated tanks are located within the facility. According to Mr. Darrell Golnick, the former owner and operator of Associated Plating, the floor trenches have only been used for the transport of rinse water, not plating fluids or degreasing fluids. Mr. Golnick has been at the facility for 22 years.

According to City of Santa Fe Springs building and safety records and interviews with Mr. Darrell Golnick and Mr. Clare Golnick, the former operators of Associated Plating, the original building permit was issued in 1971 to Grubb Construction for a 17,000 square foot concrete building. Permits were issued to Dyn Electronics in 1971 and 1972 for remodeling. Dyn Electronics used the facility for office and warehouse space. After 1972, all permits were issued to a predecessor entity for minor remodeling. The Golnick family purchased the property in 1977 and was subsequently leased to Associated Plating. Plating operations began in 1978. The most recent permit in the file is from 1985 for installation of fire sprinklers. The land was previously undeveloped with the exception of a large above-ground storage tank. This AST was situated over the site and vicinity in the 1930's.

The site is located on the eastern or Downey Plain portion of the Los Angeles Coastal Plain, which slopes gently to the south and has low relief. The present topography is a result of coalescing alluvial fans of the Rio Hondo, San Gabriel, and Los Angeles rivers. The Downey Plain is bordered by the Montebello Plain to the north and east and the Newport-Inglewood uplift to the southwest (California Department of Water Resources (CDWR), 1961).

Topographic map coverage of the site is provided by the U.S. Geological Survey (USGS), Whittier, California 7.5 minute quadrangle map dated 1965 and photorevised in 1981. The elevation of the property is approximately 150 feet above mean sea level (msl) with a local topographic gradient of less than 20 feet per mile to the southeast.

Regional and surface water drainage appear to flow west to the San Gabriel River. The nearest surface water or drainage course is La Canada Verde Creek (Coyote Creek)

located approximately ½ mile to the east. This drainage course is a concrete-lined channel now used for flood control in the winter months, and has little effect on local groundwater conditions. No large water bodies lie near the property. No designated wetlands are on or adjacent to the subject property.

2.0 SAMPLING STRATEGY AND APPROACH

The field sampling investigation will consist of five soil borings drilled in the area of the soils beneath flocculation, pump, and boiler areas of the waste water treatment area to evaluate onsite soil for pH and the presence of metals and cyanide. Six additional borings are proposed to be located in the vapor degreaser area, two floor trench locations, the waste storage area (pH only), and background locations (Figure 2). The following sections describe the sampling strategy, investigative methods and procedures, sample analysis program, sample handling, decontamination procedures, and management of investigative wastes.

2.1 Rationale for Sampling Strategy

The sampling strategy is based on the requirements of the Notice of Compliance (NOC), the use of the property as a plating facility, and the potential for subsurface soils to have been impacted by wastewater containing metals and cyanide. Sample locations will be determined in the field with DTSC concurrence.

2.1.1 Investigation of Wastewater Treatment Area

Based on the limited size of the area of concern, URS proposes five borings. Borings 1 and 2 – adjacent to the flocculation ASTs, Boring 3 – next to the pump adjacent to the west of the flocculation ASTs, Boring 4 – on the crack in the concrete opposite the boilers, Boring 5 – opposite the wastewater holding tank near the ion exchange unit.

Soil samples will be collected at approximately 0.5 to 1.0 foot, 4.5 to 5.0 feet, and 9.5 to 10.0 feet bgs (three samples per boring). If necessary, sampling depths will be adjusted based on visual indications of impact. Groundwater is not expected to be encountered.

Soil samples will be transported to a California State Certified Analytical Laboratory for chemical analysis. All of the soil samples collected will be analyzed for pH and California metals and VOCs. If elevated copper and pH greater than 8.9 are detected, then the corresponding samples will also be analyzed for cyanide using method EPA Method 6010B.

Field duplicates will be collected and analyzed at the rate of 1 duplicate for the entire set of samples. In addition, an equipment rinseate blank will be prepared for each day of sampling (assume 2 days). Proper chain of custody records will be prepared.

2.1.2 Investigation of Degreaser and Floor Drains

Based on the March 2, 2001 inspection, three borings are proposed. Borings 6 and 7 are closest to the vapor degreaser. Boring 6 will be drilled through the floor as close to the degreaser as possible. Borings 7 and 8 will be drilled through the base of the floor trench. Boring 7 will be located in the trench closest to the degreaser and Boring 8 will be located in the trench approximately 25 feet west of the degreaser. Boring 8 will also serve to evaluate the soil conditions adjacent to the wastewater treatment system.

Soil samples will be collected at approximately 0.5 to 1.0 foot and 4.5 to 5.0 feet below the base of the floor channel (the base is already several feet below grade in Borings 7 and 8). A soil sample will also be collected from 9.5 to 10 feet from Boring B-6. If necessary, sampling depths will be adjusted based on visual indications of impact. Groundwater is not expected to be encountered.

Soil samples will be transported to a California State Certified Analytical Laboratory for chemical analysis. The seven samples from Borings 6, 7, and 8 will be analyzed for VOCs using EPA Method 5035 compliant. The samples from Boring 8 (2 soil samples) will also be analyzed for pH and California metals. If elevated pH and copper are detected, then the samples will also be analyzed for cyanide.

2.1.3 Background Investigation

Due to an historic acid spill, Boring 9 is proposed within the chemical storage area adjacent to the south wall (property boundary. Soil samples will be collected at approximately 0.5 to 1.0 foot and 4.5 to 5.0 feet bgs. If necessary, sampling depths will be adjusted based on visual indications of impact. The 0.5 and 5 foot samples will be analyzed for pH and VOCs.

Three background borings are proposed. Background 1 is proposed for the landscape in the front of the business, Background 2 is proposed for the employee parking area, and Background 3 is proposed for the vacant lot adjacent to the parking area. Soil samples will be collected at approximately 0.5 to 1.0 foot, 4.5 to 5.0 feet, and 9.5 to 10.0 feet bgs. If necessary, sampling depths will be adjusted based on visual indications of impact. Groundwater is not expected to be encountered.

Soil samples will be transported to a California State Certified Analytical Laboratory for chemical analysis. All soil samples collected will be analyzed for pH, California metals, VOCs, and cyanide.

2.2 Sampling Methods and Procedures

This section describes the methods and procedures that will be used to collect soil samples. All samples will be handled in accordance with approved procedures specified in Sections 2.4 to 2.6. Sample containers and volumes, as well as preservatives and holding times, are presented in Table 2.

2.2.1 Health and Safety

Prior to implementing the field investigation, field personnel will be required to review and sign a site-specific, URS-prepared, Health and Safety Plan (HSP). The HSP is designed to: (I) identify and describe potentially hazardous substances that may be encountered during field activities; (2) specify protective equipment for onsite activities; (3) specify personnel decontamination procedures; and (4) outline measures to be implemented in the event of an emergency. The HSP will provide site-specific scopes of

work as well as indicate any unique constituents of concern. The HSP will be in accordance with the guidelines provided by DTSC.

2.2.2 Utility Clearance

Prior to commencement of field activities, Underground Services Alert (USA) will be notified of our intent to conduct subsurface investigations at least 48 hours prior to initiation of intrusive field tasks. All proposed locations of subsurface investigation will be clearly marked with white paint or surveyors flagging as required by USA. USA will contact all utility owners of record within the Site vicinity and notify them of our intention to conduct subsurface investigations in proximity to buried utilities. All utility owners of record, or their designated agents, will be expected to clearly mark the position of their utilities on the ground surface up to the property boundary.

At each planned boring location, a geophysical survey will be conducted to help identify subsurface line and obstructions. Four potential geophysical methods may be used: magnetics; electromagnetics; ground penetrating radar (GPR); and electromagnetic line location. Magnetics and electromagnetics use their respective technologies to identify underground tanks, drums, and conduits. These features are detected due to the ferrous and electrically conductive material of their construction. GPR is used as a follow up technology to characterize identified magnetic or electromagnetic anomalies.

2.2.3 Soil Sampling

At each of the soil boring locations the asphalt or concrete flooring will be removed. Soil borings will be advanced using either hand auger sampling techniques or direct push drilling techniques.

If access requires the use of a hand auger, the following technique will be utilized. A 3-inch diameter hand auger will be manually advanced to the desired sampling depth. After the auger bit reaches the desired sample depth, the hand auger will be removed from the borehole. A manually driven slide-hammer sampler equipped with a core sampler lined with two 2-inch by 3-inch stainless steel rings will be used to collect the soil sample. The core sampler will be driven approximately 0.5 foot into the base of the hand-augered boring. Upon retrieval of the soil samples, the sample sleeves will be

immediately removed from the core sampler. The ends of the selected 2-inch by 3-inch ring will be covered with Teflon sheets and capped with plastic end caps. The remaining soil will be used for lithologic description. After decontamination and adding new sample rings to the sampler, the process is repeated until the desired depth is reached.

If access allows, URS would prefer to use the following direct push technique. The push-probe system is driven by a hydraulic hammer or vibrator. As the core barrel is advanced, soil is driven into an inner 1¾-inch diameter, 18-inch long acetate sleeve. After being driven 18 inches, the rods are removed from the borehole. The acetate sleeve containing the soil is then removed from the sample barrel. Selected 6-inch sections are then cut and the ends are covered with Teflon sheets, capped with plastic end caps, and sealed with Teflon sheeting or Parafilm Remaining soil is used for lithologic description. After decontamination and adding a new sleeve, the sample barrel is lowered back into the casing, additional sections of casing are added, and the process is repeated until the desired depth is reached.

Sample labels will be fixed onto the sides of the containers and will contain the following information: boring number, sample number, depth, collector name, sample location, date and time of collection. Sealed and labeled samples will be cooled in the field in an ice chest and shipped by URS under standard chain-of-custody to a California EPA-certified analytical laboratory selected for the analyses. Down-hole drilling equipment will be cleaned prior to drilling each boring. Prior to soil sampling, samplers will be washed in a dilute non-phosphate detergent solution, triple rinsed in fresh and then distilled water, and air-dried.

Generated soils and decontamination fluids will be placed in U.S Department of Transportation (DOT)-approved drums for temporary storage pending disposal (see Section 3.8). Once sampling has been completed, the borehole annulus will be backfilled with hydrated bentonite chips to grade and the surface finished with asphaltic material, concrete, or dirt, to match the original ground surface at each boring location.

2.2.4 Field Instrument Calibration

During drilling and sampling operations, an organic vapor monitor (OVM) will be used to monitor the presence and level of organic vapors in the borings and to screen soil samples for Health and Safety purposes. The data will be used as an immediate indicator

of volatile organic vapors in subsurface materials. A RAE Systems Inc. MiniRAE (MiniRAE) Photoionization detector (PID) or equivalent will be employed at the site.

The organic vapor readings will be recorded on boring logs prepared by the field geologist during drilling activities. The boring logs will record the following sampling information: boring number and location; sample identification numbers; date and time; sample depth; lithologic description in accordance with the Unified Soils Classification System (USCS); description of any visible evidence of soil contamination (i.e., odor, staining); and OVM readings.

The OVM must be calibrated in order to display concentration in units equivalent to parts per million (ppm). A Span Gas, containing a known concentration of an ionizable gas or vapor, is used to set the sensitivity. Isobutylene at 100 ppm in air will be used as the Span Gas. The instrument will be calibrated as follows:

- Connect the calibration adapter to the gas inlet tube of the PID, and connect the calibration adapter to the Span Gas cylinder. Hand tighten the fittings.
- Turn the flow controller knob counterclockwise about half a turn to start
 the flow of gas. The pump noise should change indicated that the gas has
 started to flow.
- 3. Wait for the instrument reading to stabilize within ±0.1 ppm. This usually takes about 30 to 40 seconds. When the last digit of the reading stops changing for a few seconds, depress the [enter] key to complete the procedure.
- Turn the flow controller knob fully clockwise to turn off the flow of gas.
 Disconnect the calibration adapter from the PID.

One may depress the [menu] key any time before depressing the [enter] key in Step 3 to abort the calibration. In this case, the previously stored calibration data is not changed. The instrument will be calibrated a minimum of once per day. OVMs used at the Site will be equipped with a lamp energy of 10.6 eV.

2.3 Sample Analysis

2.3.1 Analytical Program

Offsite analytical services will be provided by SunStar Environmental Laboratories, Inc. (Sunstar) of Tustin, California. Sunstar is accredited by the California Environmental Protection Agency, Department of Health Services, Environmental Laboratory Accreditation Program (ELAP). Analyses will be requested on chain-of-custody records (see Section 3.63). The laboratory will be instructed to report estimated values between the method detection limit and reporting limit and "J"-flag each estimated value.

The following samples (including field quality control [QC] samples) will be collected as part of this investigative effort.

- 30 soil samples for California Metals by EPA Method 6010/7400 (26 field samples and 4 field duplicates). Seven of these will be held for possible cyanide analysis.
- 30 soil samples for cyanide by EPA Methods 9010 (26 field samples and 4 duplicate samples). With the exception of Boring 1 and the background samples, cyanide analysis will be dependent on the detection of elevated copper and pH greater than 8.9, and therefore may not be performed.
- 32 soil samples for pH by EPA Method 9040/9045 (28 field samples and 4 duplicate samples).
- 37 soil samples for VOCs by EPA Method 5035 compliant (33 field samples and 4 duplicate samples).
- Two (2) water sample (field equipment rinseate) for California Metals and VOCs by EPA Method 6010/7400 and by EPA Method 8260. If elevated copper is detected and pH greater than 8.9, then the rinseate samples will also be analyzed for cyanide.

All soil samples will be packaged in a stainless steel sleeve or in an acetate sleeve or as specified by the Encore sampling method for VOCs. The field equipment blank will be placed in a pre-prepared sample bottle provided by the analytical laboratory.

2.3.2 Analysis Methods and Method Detection Limits

As discussed above, the following analytical methods will be utilized for this investigation:

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No.	N/I o	friv.
Soil	1414	LI IA

EPA Method 9010 – cyanide EPA Method 9040/9045 – pH EPA Method 6010/7400 – metals EPA Method 5035 – compliant

Soil Matrix

EPA Method 9010 – cyanide EPA Method 9040/9045 – pH EPA Method 6010/7400 – metals

Water Matrix (Field Equipment Blank)

EPA Method 9010 EPA Method 9040/9045 EPA Method 6010/7400 EPA Method 8260

Method Detection Limit

0.5 mg/Kg

Each tenth past the decimal Antimony – 2 mg/Kg

Arsenic – 5 mg/Kg

Barium through lead - 1 mg/Kg

Mercury – 0.1 mg/Kg

Molybdenum and Nickel – 1 mg/Kg

Selenium – 5 mg/Kg

Silver and Thallium - 2 mg/Kg Vanadium and Zinc - 1 mg/Kg

EPA Method 5035 – compliant

5 to 10 μg/Kg (depending on the analyte)

2.4 Sample Containers and Preservatives

Sample rings and any other necessary containers required for the specified analyses will generally be provided by the laboratory immediately prior to the sampling event. The containers will be pre-cleaned and will not be rinsed prior to sample collection.

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Preservatives, if required, will have been added to the containers by the laboratory prior to shipment of the sample containers to the sample collector.

Analytical methods, number of samples, types of containers, preservative, and holding times are summarized in Section 2.3.1.

2.5 Sample Packaging and Shipment

To identify and manage samples obtained in the field, a sample label will be affixed to each sample container. The sample labels will include the following information:

- Project number
- Site name
- Boring number
- Sample identification number
- Sampler's initials
- Date and time of collection
- Preservative, if any.

Following collection and labeling, samples will be immediately placed in a sample cooler for temporary storage. The following protocol will be followed for sample packaging:

- 1. Sample containers will be placed in clear, plastic, leak-resistant bags prior to placement in the ice chest. Check screw caps for tightness prior to placing the sample in the bag.
- Samples to be shipped will be placed in the cooler and packed with packaging materials to minimize the potential for disturbance and/or breakage of the sample containers.
- 3. Ice will be placed in leak-resistant plastic bags and included in the coolers to keep samples at a chilled temperature during transport to the analytical laboratory. The drain plug of the cooler will be secured with fiberglass tape to prevent melting ice from leaking out of the cooler.

- 4. The chain-of-custody form will be placed in a water-resistant plastic bag and taped on the inside of the lid of the cooler.
- Strapping tape will be placed around all coolers prior to transport to the laboratory.

A temperature blank consisting of a 40-milliliter glass vial of distilled water will be included in each cooler sent to the analytical laboratory. The purpose of the temperature blank is to allow the analytical laboratory to obtain a representative measurement of the temperature of samples enclosed in a cooler without disturbing the actual samples. The field team will package and label the temperature blank like a regular water sample; however, the analytical laboratory will only measure the temperature of the blank upon receipt of samples.

Every effort will be made to transport the samples to the analytical laboratory at the end of the sampling day. However, if the sampling runs late and/or the laboratory is closed, the samples will be stored overnight in a secured location (e.g., at the contractor's office) under appropriate chain-of-custody procedures, and the samples will be shipped to the laboratory the next day. Prior to overnight storage, the cooler(s) will be restocked with new ice or blue ice to maintain the samples in a chilled state. The temperature blank inside each cooler will be checked by the sample collector at the beginning of the evening and in the morning and the temperature readings will be recorded in the field logbook.

2.6 Sample Documentation

2.6.1 Field Logbooks

Field logbooks will document where, when, how, and from whom any vital project information was obtained. Logbook entries will be complete and accurate enough to permit reconstruction of field activities. Logbooks will be bound with consecutively numbered pages. Each page will be dated and the time of entry noted in military time. All entries will be legible, written in black ink, and signed by the individual making the entries. Language will be factual, objective, and free of personal opinions or other terminology which might prove inappropriate. If an error is made, corrections will be made by crossing a line through the error and entering the correct information.

Corrections will be dated and initialed. No entries will be obliterated or rendered unreadable.

Entries in the field logbook will include at a minimum the following for each sample date:

- Site name and address
- Recorder's name
- Team members and their responsibilities
- Time of Site arrival/entry onsite and time of Site departure
- Other personnel onsite
- A summary of any onsite meetings
- Deviations from sampling plans and Site safety plans
- · Changes in personnel and responsibilities as well as reasons for the changes
- Levels of safety protection
- Calibration readings for any equipment used and equipment model and serial number.

At a minimum, the following information will be recorded during the collection of each sample:

- Sample identification number
- Sample location and description
- Site sketch showing sample location and measured distances
- Sampler's name(s)
- Date and time of sample collection
- Designation of sample as composite or grab
- Type of sample (i.e., matrix)
- Type of preservation
- Type of sampling equipment used
- Field observations and details important to analysis or integrity of samples (e.g., heavy rains, odors, colors, etc.)
- Instrument readings (e.g., PID readings, etc.)
- Chain-of-custody form numbers and chain-of-custody seal numbers
- Transport arrangements (courier delivery, lab pickup, etc.)

Recipient laboratory(ies).

2.6.2 Boring Logs

A lithologic description of the materials encountered and collected will be maintained on boring logs compiled by the field geologist. Soils will be classified in accordance with the Unified Soils Classification System (USCS), and descriptions will include soil type, particle size and distribution, color (using the Munsell soil color chart), moisture content, and evidence of contamination (discoloration, unusual odors, etc.). The soil samples will be screened for the presence of elevated organic vapor concentrations using an OVM, and the measurements will be recorded on the boring log.

2.6.3 Chain-of-Custody Records

Chain-of-custody (COC) records are used to document sample collection and shipment to laboratory for analysis. Sample shipments for analyses will be accompanied by a COC record. If multiple coolers are sent to a single laboratory on a single day, COC form(s) will be completed and sent with the samples for each cooler. The COC record will identify the contents of each shipment and maintain the custodial integrity of the samples. Generally, a sample is considered to be in someone's custody if it is either in someone's physical possession, in someone's view, locked up, or kept in a secured area that is restricted to authorized personnel. Until receipt by the laboratory, the custody of the samples will be the responsibility of the sample collector.

The shipping containers in which samples are stored (usually a sturdy picnic cooler or ice chest) will be sealed with self-adhesive custody seals any time they are not in someone's possession or view before shipping. All custody seals will be signed and dated.

2.6.4 Photographs

Photographs will be taken at every sample location and at other areas of interest onsite. They will serve to verify information entered in the field logbook. When a photograph is taken, the following information will be written in the logbook or will be recorded in a separate field photography log:

- Time, date, location, and, if appropriate, weather conditions
- Description of the subject photographed
- Name of person taking the photograph.

2.7 Decontamination Procedures

All equipment that comes into contact with potentially contaminated soil or water will be decontaminated consistently as to assure the quality of samples collected. Disposable equipment intended for one time use will not be decontaminated, but will be packaged for appropriate disposal. Decontamination will occur prior to and after each use of a piece of equipment. All drilling and sampling devices used will be decontaminated using the following procedures:

- Non-phosphate detergent and tap water wash, using a brush if necessary
- Tap-water rinse
- Initial distilled water rinse
- Final distilled water rinse.

Equipment will be decontaminated in a pre-designated area on plastic sheeting, and clean bulky equipment will be stored on plastic sheeting in uncontaminated areas. Cleaned small equipment will be stored in plastic bags. Materials to be stored more than a few hours will also be covered.

2.8 Investigative Waste Management

In the process of collecting environmental samples during the proposed field-sampling program, different types of potentially contaminated investigation-derived wastes (IDW) will be generated that include the following:

- Used personal protective equipment (PPE)
- Disposable sampling equipment
- Soil cuttings
- · Decontamination fluids.

The sampling plan will follow applicable portions of the Office of Emergency and Remedial Response (OERR) Directive 9345.3-02 dated May 1991, which provides the guidance for the management of IDW.

Listed below are the procedures that will be followed for handling the IDW:

- Used PPE and disposable equipment will be double bagged and placed in a
 municipal refuse dumpster. These wastes are not considered hazardous and can
 be sent to a municipal landfill. Any PPE and disposable equipment that is to be
 disposed of which can still be reused will be rendered inoperable before disposal
 in the refuse dumpster.
- Soil cuttings will be placed in DOT-approved drums. The drums will be sealed, dated, and labeled, pending receipt of analytical results.
- Decontamination water will be placed in DOT-approved drums. The drums will be sealed so that they are watertight, dated, and labeled, pending receipt of analytical results.
- The sealed drums will be stored within a secured area onsite.

Following receipt of analytical results, all liquid IDW (decontamination water) and solid IDW (soil cuttings) will be disposed at appropriate disposal/treatment/recycling facilities. All shipping documents (hazardous waste manifests and bills of lading) will be included in the final report. All hazardous waste manifests will be signed by a representative of Associated Plating, with Associated Plating listed as generator of the wastes.

2.9 Quality Assurance And Quality Control Measures

An integral part of the sampling and analysis plan is quality assurance/quality control (QA/QC) procedures to ensure the reliability and compatibility of all data generated during the investigation. The chemical data to be collected for this effort will be used to ensure that the area of concern is accurately and thoroughly evaluated. Strict QA/QC procedures will be adhered to.

3.0 REPORT PREPARATION

The results of the investigation will be included in the Further Investigation Report, which will be submitted to DTSC. The report will include a description of the Site background and environmental setting, detailed discussions of field procedures, field observations, and analytical results and laboratory reports. The report will include an assessment of the data.

If further action is recommended, the report will identify additional assessment or investigation needs and strategies. The report will also include recommendations for expedited response actions, if any are necessary, to mitigate any immediate potential hazards to public health or the environment.

4.0 PROPOSED WORK SCHEDULE

URS proposes to begin this project immediately upon receipt of DTSC approval. We will need at least one week to schedule and prepare for the field work. The fieldwork for the proposed soil sampling investigation can be completed within two to three field days. We anticipate that a draft report will be available approximately two weeks following completion of the field sampling.

URS appreciates the opportunity to present this workplan to the DTSC. We look forward to your comments.

Sincerely,

URS

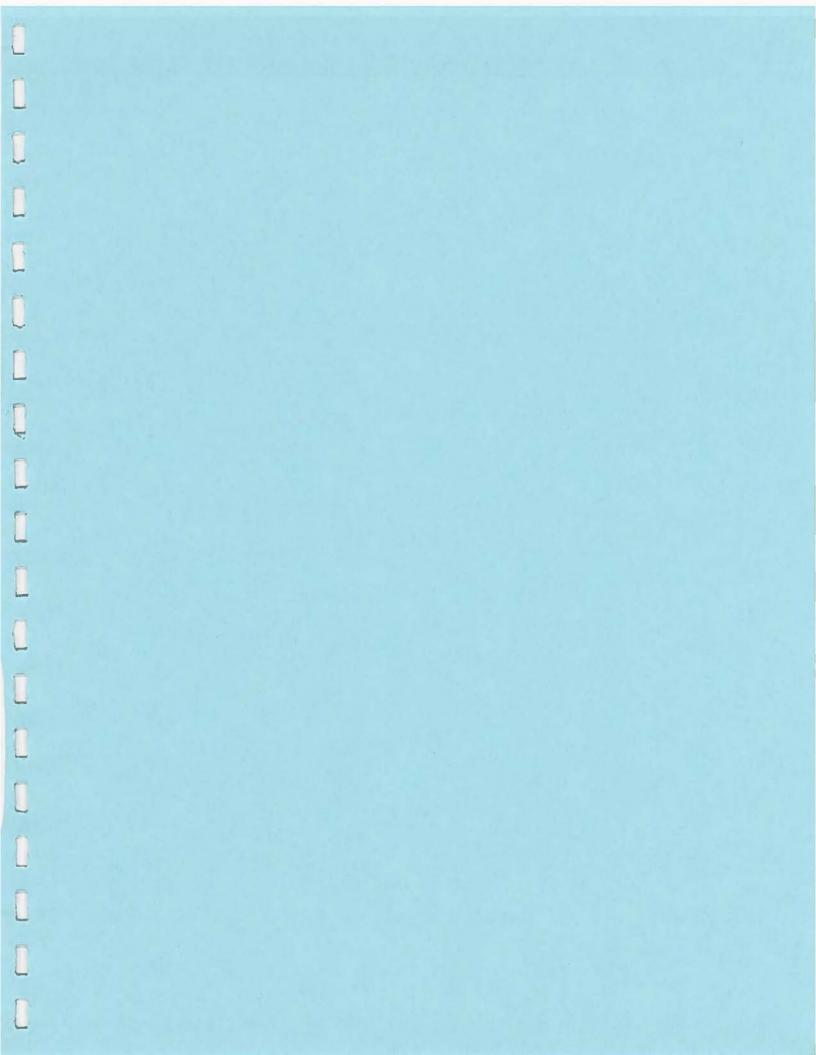
DEBRA B. STOTT, REA, R.G. Senior Geologist – Los Angeles 213-996-2441

KENNETH M. JURISH, ESQ. Project Director – Chicago 312-697-7219

cc: Mr. John Shulkin Associated Plating Company 9636 Ann Street Santa Fe Springs, CA 90670

TABLE 1 – ANALYTICAL SUMMARY						
Wastewater Treatment	Sample Intervals Below the surface	Analyses	Additional Analysis if pH and copper are elevated	No. of samples collected		
B-1	0.5-1, 4.5-5, 9.5-10	pH CA Metals Cyanide VOCs		3		
B-2	0.5-1, 4.5-5, 9.5-10	pH CA Metals VOCs	Cyanide	3		
B-3	0.5-1, 4.5-5, 9.5-10	pH CA Metals VOCs	Cyanide	3		
B-4	0.5-1, 4.5-5, 9.5-10	pH CA Metals VOCs	Cyanide	3		
B-5	0.5-1, 4.5-5, 9.5-10	pH CA Metals VOCs	Cyanide	3		
Degreaser and Floor Trenches	Sample intervals below the base of the floor or trench					
B-6	0.5-1, 4.5-5 9.5-10	VOCs		3		
B-7	0.5-1, 4.5-5	VOCs		2		
B-8	0.5-1, 4.5-5	VOCs pH CA Metals	Cyanide	2		
Chemical Storage						
B-9	0.5-1, 4.5-5	pH VOCs		2		
Background				ļ		
Background 1	0.5-1, 4.5-5 9.5-10	pH and cyanide CA metals VOCs		3		
Background 2	0.5-1, 4.5-5 9.5-10	pH and cyanide CA Metals VOCs		3		
Background 3	0.5-1, 4.5-5 9.5-10	pH and cyanide CA Metals VOCs		3		
Duplicates						
Day I	0.5-1 4.5-5	pH CA Metals VOCs	Cyanide	2		
Day 2	0.5-1 4.5-5	pH CA Metals VOCs	Cyanide	2		

Wastewater Treatment	Sample Intervals Below the surface	Analyses	Additional Analysis if pH and copper are elevated	No. of samples collected
Equipment Rinsate				
Day I		pH CA Metals VOCs	Cyanide	1
Day 2		pH CA Metals VOCs	Cyanide	1





Department of Toxic Substances Control

Edwin F. Lowry, Director 5796 Corporate Avenue Cypress, California 90630



Gray Davis Governor

Winston H. Hickox
Agency Secretary
California Environmental
Protection Agency

October 31, 2001

Mr. Michael Evans Associated Plating Co. 9636 Ann Street Santa Fe Springs, California 90670

REVISED INTERIM MEASURES WORKPLAN FOR ASSOCIATED PLATING CO. FACILITY, 9636 ANN STREET, SANTA FE SPRINGS, CALIFORNIA 90670, EPA ID NO CAD 043 079 110

Dear Mr. Evans:

The Department of Toxic Substances Control (DTSC) has reviewed the revised Interim Measures Workplan (Workplan) and the Health and Safety Plan both dated October 24, 2001, prepared by URS for Associated Plating Co. located at 9636 Ann Street, Santa Fe Springs, California 90670. This letter is to notify you that the Workplan is hereby approved.

A report presenting the findings of the investigation activities should be submitted to DTSC at the conclusion of the investigation. This investigation is being conducted to determine if any additional investigation will be required. Please note that the report should include at a minimum, the following:

- description of the activities
- a map documenting all of the sample locations
- a sampling methodology and analytical methods used including QA/QC
- a table describing all sample results, include copies of all laboratory analytical data reports
- a table describing summary of analysis of data and conclusions include detection limits used
- recommendations

In the event that the report can not be submitted as proposed, please notify DTSC in writing of the change in schedule.

The energy challenge facing California is real. Every Californian needs to take immediate action to reduce energy consumption. For a list of simple ways you can reduce demand and cut your energy costs, see our Web-site at www.dtsc.ca.gov.

October 31, 2001 Page 2

If you have any questions or concerns regarding this matter, please contact Mr. Nebu John at (714) 484-5475.

Sincerely,

Yvonne Sanchez Section Chief

Southern California Branch

State Regulatory Programs Division

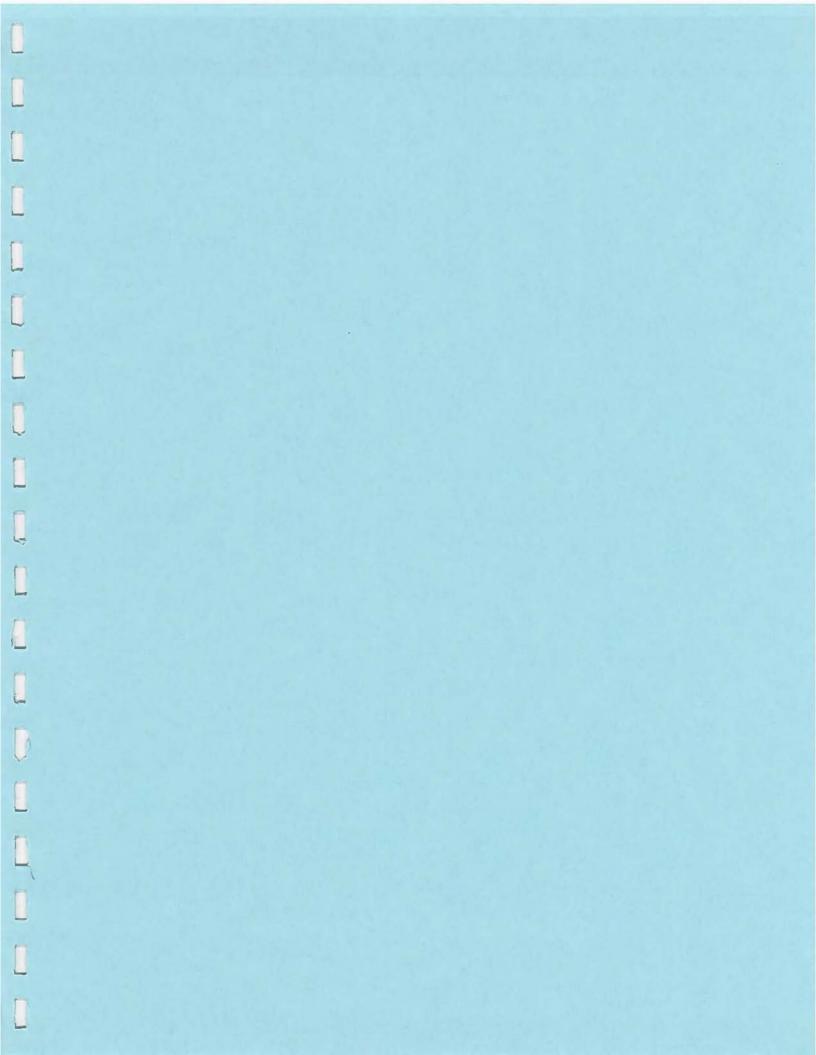
Certified Mail 7000 1670 0005 6054 9338 Return Receipt Requested

cc: Mr. Bill Jones, Manager Health Haz/Mat Division

Los Angels County Fire Department

5825 Rickenbacker Road Commerce, California 90040

Mr. Mauricio Escobar URS Corporation 911 Wilshire Boulevard, Suite 800 Los Angeles, California 90017



URS

December 7, 2001

Ms. Yvonne Sanchez
Unit Chief – State Regulatory Programs Division
Southern California Branch
Department of Toxic Substances Control
California EPA
5796 Corporate Avenue
Cypress, California 90630

Re: Interim Measures Workplan Addendum

Associated Plating Company, Inc. 9636 Ann Street
Santa Fe Springs, California 90670
EPA ID #CAD043079110
URS Project No. 59-00115133.01

Dear Ms. Sanchez:

On behalf of Associated Plating Company, Inc. (APCI), URS Corporation (URS) is pleased to submit this Interim Measures Workplan Addendum (Addendum) to the Department of Toxic Substances Control (DTSC). In accordance with a Subsurface Investigation Workplan approved by DTSC in an October 31, 2001 letter, URS conducted fieldwork at the subject property on Thursday, November 1, 2001. Based on the results of this investigation, URS is requesting that two shallow soil borings be relocated and one deep soil boring be added to the field program. URS believes that these additions/alterations to the original Workplan will provide for a more comprehensive set of data allowing for better interpretation of subsurface site conditions and recommendations, as appropriate.

1.0 SUMMARY

During field activities of November 1, 2001, URS completed nine (9) of the twelve (12) proposed soil borings. The remaining three borings (B3, B4, and B5) were not completed due to concrete thickness exceeding 12-inches on the south side of the building. With the exception of boring BG-3, all completed boring locations encountered refusal prior to reaching 10-feet bgs. It is believed that a concrete slab that provided footing for a former on-site aboveground tank may still be present throughout a large portion of the subject property.

URS Corporation 911 Wilshire Boulevard, Suite 800 Los Angeles, CA 90017-3437 Tel: 213.996.2200 Fax: 213,996.2458



Workplan Addendum Associated Plating EPA ID #CAD043079110 URS Project No. 59-00115133.01 December 7, 2001 Page 2

In general, laboratory analytical results indicate that shallow subsurface soils in the vicinity of B1, B2 and B9 (outside the southeast corner of the building), and in the immediate vicinity of B6 (north of the degreasing area) have elevated concentrations of volatile organic compounds (VOCs). In addition, all soil samples analyzed had detectable concentrations of total petroleum hydrocarbons (TPH), including gasoline fuel constituents.

Soil samples analyzed for cyanide had concentrations below the laboratory detection limit. Soil samples analyzed for Title 22 metals had concentrations within acceptable background levels. Soil samples analyzed for pH were within acceptable levels.

2.0 SAMPLING STRATEGY AND APPROACH

URS proposes to relocate soil borings B3 and B5 to the drum storage area north of B1 (See Figure 1). This will provide for greater horizontal control in that area. In addition, URS proposes to add boring B10 in the vicinity of borings B1, B2, and B9. This boring will be driven 20 feet below the concrete slab (locally 7-feet bgs) to assess the vertical extent of VOC impacts.

Soil sample collection and sampling in borings B3 and B5 will be completed as per the Workplan. Soil samples in boring B10 will be collected at approximately 0.5 foot, 5.0 feet, immediately beneath the concrete slab, and at 5-foot intervals to 20 feet below the concrete slab. If necessary, sampling depths will be adjusted based on visual indications of impact. If groundwater is encountered, a grab sample will be collected and the boring will be terminated. Soil samples collected from boring B10 will be transported to a California State Certified Analytical Laboratory for chemical analysis. Soil samples collected will be analyzed for VOCs using EPA Method 8260B.

In order to complete boring B10, URS will utilize a hollow stem auger drilling rig. Soil cuttings will be drummed and placed on-site for profiling and off-site disposal. The soil boring will be backfilled with a portland cement bentonite slurry mixture.



Workplan Addendum Associated Plating EPA ID #CAD043079110 URS Project No. 59-00115133.01 December 7, 2001 Page 3

3.0 PROPOSED WORK SCHEDULE

URS proposes to begin this project immediately upon receipt of DTSC approval. We will need at least one week to schedule and prepare for the fieldwork. The fieldwork for the proposed soil sampling investigation can be completed within one to two field days. We anticipate that a draft report will be available approximately two weeks following completion of the field sampling.

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URS appreciates the opportunity to present this workplan to the DTSC. We look forward to your comments.

DEBRA B. STOTT, REA, R.G.

213-996-2441

Senior Geologist - Los Angeles

Sincerely,

URS

MAURICIO H. ESCOBAR, REA

Project Geologist 213-996-2454

AR SLAT

KENNETH M. JURISH, ESQ. Project Director - Chicago

312-697-7219



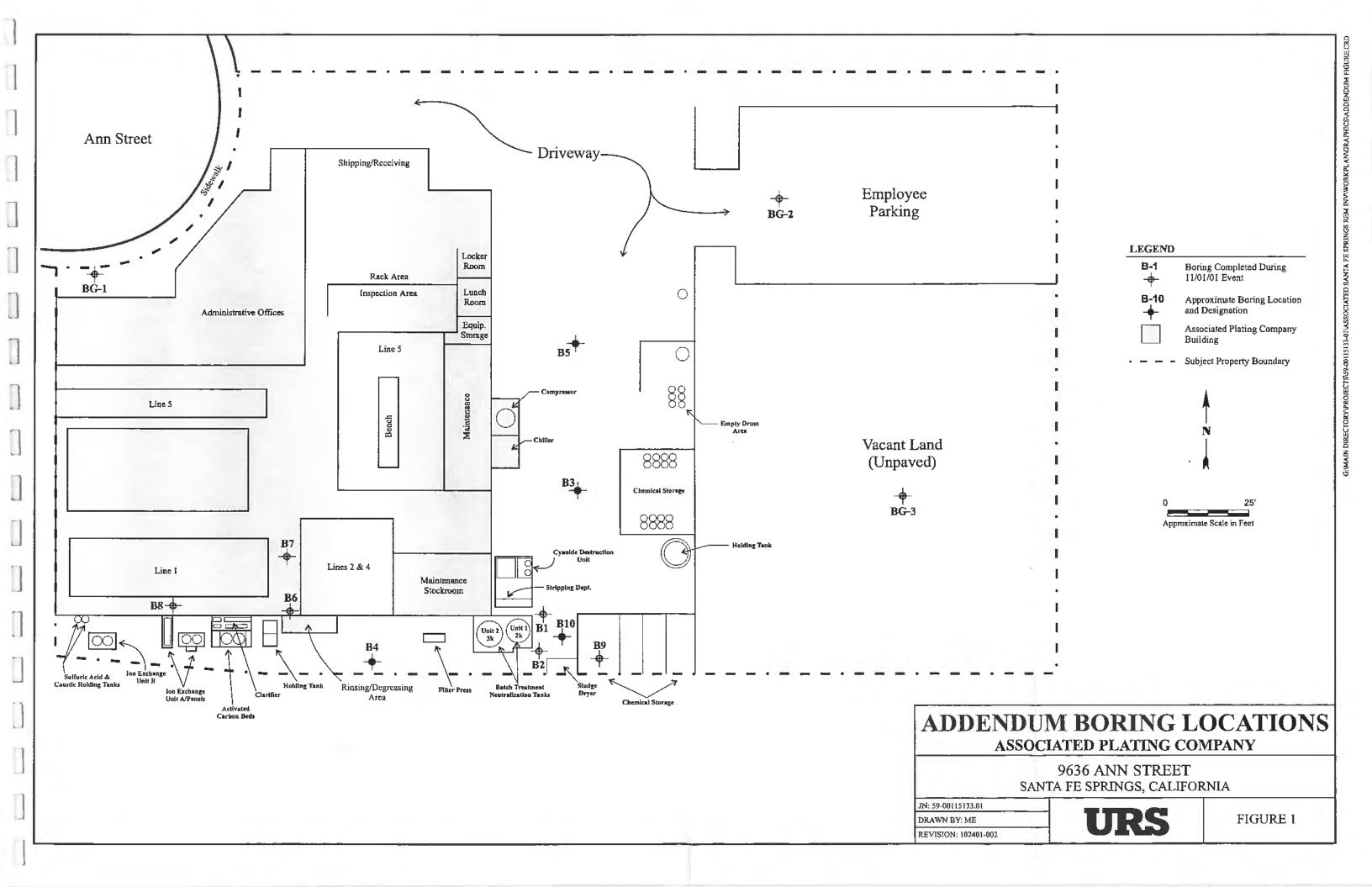
Workplan Addendum Associated Plating EPA ID #CAD043079110 URS Project No. 59-00115133.01 December 7, 2001 Page 4

cc: Mr. Jon Shulkin

Associated Plating Company

9636 Ann Street

Santa Fe Springs, CA 90670



1				
U				



Winston H. Hickox Agency Secretary California Environmental Protection Agency

Department of Toxic Substances Control

Edwin F. Lowry, Director 5796 Corporate Avenue Cypress, California 90630



Gray Davis Governor

February 8, 2002

Mr. Michael Evans Associated Plating Co. 9636 Ann Street Santa Fe Springs, California 90670

INTERIM MEASURES WORKPLAN ADDENDUM FOR ASSOCIATED PLATING CO. FACILITY, 9636 ANN STREET, SANTA FE SPRINGS, CALIFORNIA 90670, EPA ID NO CAD 043 079 110

Dear Mr. Evans:

The Department of Toxic Substances Control (Department) has reviewed the above referenced Workplan Addendum (Workplan) dated December 7, 2001, prepared by URS on behalf of Associated Plating Co. located at 9636 Ann Street, Santa Fe Springs, California 90670. This letter is to notify you that the Department concurs with the proposals in the Workplan to add three additional borings to investigate the vertical and lateral extent of Volatile Organic Compounds (VOCs) in the vicinity of borings 1, 2, and 9 (B1, B2, and B9). However, the remaining three borings (B3, B4, and B5) and sampling from those borings must be completed as described in the previously approved Workplan "Interim Measures Workplan, Associated Plating" dated October 24, 2001, in order to determine the lateral and vertical extent of the contamination in the water treatment area.

A report presenting the findings of the investigation activities should be submitted to DTSC at the conclusion of the investigation. This investigation is being conducted to determine if any additional investigation will be required. Please note that the report should include at a minimum, the following:

- description of the activities
- a map documenting all of the sample locations
- a sampling methodology and analytical methods used including QA/QC
- a table describing all sample results, including copies of all laboratory analytical data reports

The energy challenge facing California is real. Every Californian needs to take immediate action to reduce energy consumption. For a list of simple ways you can reduce demand and cut your energy costs, see our Web-site at www.dtsc.ca.gov.

February 8, 2002 Page 2

- a table describing summary of analysis of data and conclusions including detection limits used
- recommendations

In the event that the report cannot be submitted as proposed, please notify DTSC in writing of the change in the schedule.

If you have any questions or concerns regarding this matter, please contact Mr. Nebu John at (714) 484-5475.

Sincerely,

Yvonne Sanchez

Section Chief

Southern California Branch

State Regulatory Programs Division

Certified Mail 7000 1670 0005 6054 9215 Return Receipt Requested

cc: Mr. Dave Klunk

Santa Fe Springs Fire Department 11300 Greenstone Avenue Santa Fe Springs, California 90670

Mr. Mauricio H. Escobar URS Corporation 911 Wilshire Boulevard, Suite 800 Los Angeles, California 90017

APPENDIX B

APPENDIX B
SOIL BORING LOGS

Depth (ft)	Sample Location	Sample Identification	Blows per 6 inches	PID (ppm)	Graphic Log	USCS Soil Group	MATERIAL DESCRIPTION
0-	+	B1-0.5		0.0		ML	CLAYEY SILT: Plastic, dark, stained, strong odor, fine, no clastics.
5-		B1-5		0.0			soil is saturated with oil.
10-						-	- Refusal encountered at 7.5 feet below ground surface (bgs). Second boring attempt unsuccessful penetrating past 7.5 feet bgs. No groundwater observed.
15-							
20-							
25-							
30-							
35-							
40-	art of t	he report prepared by URS be read logether with the re	for this		ole	NOTE	S LOG OF BORING

This log is part of the report prepared by URS for this project and should be lead together with the report. This summary applies only at the location of the exploration and at the time of drilling or excavation. Subsurface conditions may differ at other locations and may change at this location with time. Data presented are a simplification of actual conditions encountered.

Interval

Laboratory Sample

PID = Photoionization Detector

NM = Not Measured

NA = Not Applicable ppm = parts per million

No Recovery Ground Water Observed Further Investigation

9636 Ann Street Santa Fe Springs, CA

FOR: Associated Plating

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Project File: G::MAINDI-1/PROJECTS\s9-001-4\s6APHICS\sSCOI-1\GPJ;

Report, DM_GEOSGI_1A;

Logged By Date(s) Drilled 11/1/01 M.Escobar **Boring B2** Drilling Method Checked **D.Stott Direct Push** Ву Sheet 1 of 1 Drill Rig Drill Bit 1" **Badger LAR** Size/Type Type Drilling Contractor Sampling Method(s) Job 59-00115133.01 Large Bore Sampler Vironex Number Approximate Groundwater Depth and Date Measured Groundwater not Hammer Total Depth 7.5 encountered Drilled (ft) Approximate Ground Surface Elevation(ft) Comments

				·		Suitace Elevation(tt)
Depth (ft)		Blows per 6 inches	PID (ppm)	Graphic Log	USCS Soil Group	MATERIAL DESCRIPTION
0	B2-0.3		13.0		ML .	SANDY SILT: Dark Grey, fine, moist, heavy hydrocarbon staining, strong odor.
5	B2-5		8.1			soil is saturated with oil.
10-					:	Refusal encountered at 7.5 feet below ground surface. Sample recovered from 7.5 feet, but onsite DTSC. representative decided not to collect/preserve for lab analysis. No groundwater observed.
15-						
20-						
25-						
30-						
35-						
project and should this summary ap exploration and a Subsurface cond may change at the may change at the may change at the subsurface cond may change at the subsurface subsubsubsurface subsurface subsurface subsurface subsurface sub	life report prepared by URS lid be read logether with the re- poles only at the location of it if the time of drilling or excay litions may differ at other loss its location with time. Date p on of actual conditions encou	eport. he ation, ations and presented	Sami Internation Sami	ratory ple		LOG OF BORING PID = Photoionization Detector NM = Not Measured NA = Not Applicable NA = Not Applicable NA = Not Applicable NA = Not Applicable Santa Fe Springs, CA

ppm = parts per million

FOR: Associated Plating

▼ Ground Water Observed

Data Template: DMLA.GDT

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DM_GEOSCI_14;

Dete(s) Drilled	2/20/02	Logged By	J.Dadakis	Posing P2
Drilling Method	Direct Push	Checked By	D.Stoll	Boring B3 Sheet 1 of 1
Drill Rig Type	Geoprobe 540M LAR	Drill Bit Size/Type	1"	Sheet 1 of 1
Sampling Method(s)	Large Bore Sampler	Drilling Contractor	Interphase	Job Number 59-00115133.01
Approximate G Depth and Dat		Hammer Data		Totel Depth 7.0
Comments				Approximate Ground Surface Elevation(ft)

Depth (ft) Sample Location	Sample Identification	Blows per 6 inches	PIO (ppm)	Graphic Log	USCS Soil Group	MATERIAL DESCRIPTION
o s	B3-1.5 B3-5		16.8	δ	ML ML	18" thick concrete slab. CLAYEY SILT: sample is fairly water saturated, low-med plasticity, low-med toughness, no dilitancy, slightly stiff, moist, hydrocarbon odor, heavy staining, very dark gray (5Y 3/1). SILT: similar to above, but now with some fine sand and less clay, less stiff than above.
10-						Refusal encountered at 7.0 feet below ground surface. No groundwater observed.
15						
20						
25-						- - -
30-						
35-				:		
lay change at this	he report prepared by URS be read together with the r less only at the location of it the time of drilling or swcav ons may differ at other loce location with time. Data p of actual conditions encou	resented intered.	Sami Inten	netory ole	,	ES P(D = Photoionization Detector NM = Not Measured NA = Not Applicable NOT = parts per million Santa Fe Springs, CA

ppm = parts per million

▼ Ground Water Observed

Santa Fe Springs, CA

FOR: Associated Plating

Project File: GAMAINDI-TVPROJECTS/59-001-4/GRAPHICS/ASSOCI-1.GPU;

O Depth (ft)	Sample Identification	Blows per 6 inches	PID (ppm)	Graphic Log	USCS Soil Group	MATERIAL DESCRIPTION
0	94-1		13.4		ML	14" thick concrete slab. SILT: wet sample, low toughness, medium plasticity, slow dilitancy,
5-	84-5		5.9		ML	some clay, trace fine sand, soft, strong hydrocarbon odor, dark greenish gray (Gley 1.4/1). CLAYEY SILT: wet sample, medium toughness, medium plasticity, slow dilitancy, moist, trace fine sand, stiffer than above, strong hydrocarbon odor, dark greenish gray (Gley 1.3/1).
10-						Refusal encountered at 7.0 feet below ground surface. No groundwater observed.
15-						
20-						
25-						- - -
30-						
35- 35-						
This log is par	of the report prepared by URS	lor this	∏ Sam;	oke .	NOTE	LOG OF BORING
project and sh This summary exploration an Subsurface co may change a are a simplifica	ould be read together with the re applies only at the location of the d at the time of drilling or excave notitions may differ at other local this location with time. Data puttion of actual conditions encoun-	ne ation, tions and resented	Interv	ratory ole	1	PID = Photoionization Detector NM = Not Measured NA = Not Applicable Santa Fe Springs, CA

ppm = parts per million

No Recovery

Ground Water Observed

Santa Fe Springs, CA

FOR: Associated Plating

Printed: Data Template.DMLA.GDT G:WAINDI-1/PROJECTS/69-001-4/GRAPHICS/ASSOCI-1,GPJ, Project File: Report: DM_GEOSCI_1A;

Depth (ft)	Sample Identification	Blows per 6 inches	PID (ppm)	Graphic Log	USCS Soil Group	MATERIAL DESCRIPTION
	B5-1		63.0		ML	12" thick concrete slab. CLAYEY SILT: low-medium toughness, low-medium plasticity, slow dilltancy, 10% fine sand, slightly stiff, moist, strong hydrocarbon odor, visible staining, very dark gray (5Y 3/1)
5	B5-5		175.0		ML	same as above, slightly sandier, lower plasticity and toughness.
10-						Refusal encountered at 7.0 feet below ground surface. No groundwater observed.
15-						
20-						
25-						
30						
35						
40					NOTE	

project and should be reed together with the report. This summary applies only at the location of the exploration and at the time of drilling or excavation. Subsurface conditions may differ at other locations and may change at this location with time. Data presented are a simplification of actual conditions encountered.

L Interval

Laboratory Sample

No Recovery

Ground Water Observed

Detector

NM = Not Measured

NA = Not Applicable ppm = parts per million **Further Investigation**

9636 Ann Street Santa Fe Springs, CA

FOR: Associated Plating

GAMAINDI-1/PROJECTS59-001-4/GRAPHICS/ASSOCI-1.GPJ;

Data Template: DMLA.GDT

Report: DM_GEOSCI_1A;

Depth (ft)	Sample Location	Sample Identification	Blows per 6 inches	PID (ppm)	Graphic Log	USCS Soil Group	MATERIAL DESCRIPTION
0-	T	B5-1		63.0		ML	12" thick concrete slab. CLAYEY SILT: low-medium toughness, low-medium plasticity, slow dilitancy, 10% fine sand, slightly stiff, moist, strong hydrocarbon odor, visible staining, very dark gray (5Y 3/1)
5-	X	B5-5		175.0		ML	same as above, slightly sandier, lower plasticity and toughness.
10-							Refusal encountered at 7.0 feet below ground surface. No groundwater observed.
15-							
20- -							- -
25-				ļ			
30-							-
35-							-
40-						NOTE	s

This log is part of the report prepared by UHS for this project and should be read logather with the report. This summary applies only at the location of the exploration and at the time of drilling or succavation. Subsurface conditions may differ at other locations and may change at this location with time. Data presented are a simplification of actual conditions encountered.

Interval

Laboratory Sample

PID = Photoionization Detector

NM = Not Measured

NA = Not Applicable ppm = parts per million

No Recovery Ground Water Observed **Further Investigation**

9636 Ann Street Santa Fe Springs, CA

FOR: Associated Plating

Data Template:DMLA.GDT

Project File, GAMAINDI-TAPROJECTS/59-001-4/GRAPHICS/ASSOCI-1 GPJ;

Report: DM_GEOSCI_1A;

ှ Depth (ft)	Sample Location	Sample Identification	Blows per 6 inches	РІВ (ррм)	Graphic Log	USCS Soil Group	MATERIAL DESCRIPTION
5-		B7-3 B7-5		0.0		ML	SANDY SILT: fine-grained, discolored, hydrocarbon odor, slighly plasticity, stiff, moist.
10-							Refusal encountered at 7.0 feet below ground surface. No groundwater observed.
15-							
20- 20-		:					
25-			:				
30-							
35			:	ı			
40—	an of t	ne raport prepared by URS	for this	⊤ Samp	No.	NOTE	LOG OF BORING

This log is part of the report prepared by URS for this project and should be read together with the report. This surmary applies only at the location of the exploration and at the time of drilling or excavation. Subsurface conditions may drifter at other locations and may change at this location with time. Data presented are a simplification of actual conditions endountered.

Sample Interval Laboratory Sample PID = Photoionization

NM = Not Measured

NA = Not Applicable ppm = parts per million

No Recovery Ground Water Observed LOG OF BORING

Further Investigation

9636 Ann Street Santa Fe Springs, CA

FOR: Associated Plating

Data Template: DMLA.GDT Project File: G:WAINDI--14PROJECTS\69-001--4\GRAPHICS\ASSOCI--1.GPJ; DM_GEOSCI_1A;

o Depth (ft)	Sample Location	Sample Identification	Blows per 6 inches	PID (ppm)	Graphic Log	USCS Soil Group	MATERIAL DESCRIPTION
5-		B8-0.5 B8-5		0.0		ML	SANDY SILT: Fine, slight plasticity, slightly moist, no clastics, slight discoloration/odor. ——continued discoloration and odor.
10-							Refusal encountered at 7.0 feet below ground surface No groundwater observed
15-							
20							
25-							
30-			i				
35-							
40	- 1 vi	ne rapad referend by URS	Total No. 20			NOTE	§ LOC OF POPING

This log is part of the report prepared by URS for this project and should be read together with the report. This surmary applies only at the location of the exploration and at the time of drilling or excavation. Subsurface conditions may differ at other locations and may change at this location with time. Data presented are a simplification of actual conditions encountered.

Sample Interval

PID = Photoionization

Laboratory Sample

NM = Not Measured

NA = Not Applicable

No Recovery

ppm = parts per million

Ground Water Observed

LOG OF BORING

Further Investigation

9636 Ann Street Santa Fe Springs, CA

FOR: Associated Plating

Template:DMLA.GDT

Data

Project File: G:\MAINDI~1\PROJECTS\G9-001-4\GRAPHICS\MSSOCI~1\GPJ;

DM_GEOSCI_1A;

ې Depth (ft)	Sample Location	Sample Identification	Blows per 6 inches	PiD (ppm)	Graphic Log	USCS Soil Group	MATERIAL DESCRIPTION
0-		B9-0.5		0.0		ML	SANDY SILT: Stained, strong odor, fine matrix, no clastics, plastic, moist.
5-		B9-5		2.4			same as above
							Boring terminated at 5.0 feet below ground surface. No groundwater observed.
10-]						-
15-							-
20-							
25-							- -
]						
30-							_
35 -							- - -
40-							
	an of the should be ry appli- and at the condition at this i	e report prepared by URS the read together with the re- as only at the location of the etime of drilling or excess- ins may differ at other loca- location with time. Data pro- of actual conditions encour	for this aport, le ation, litens and essented intered.	Samp Interv Labor Samp	ratory ole	1	EPID = Photoionization Detector IM = Not Measured IA = Not Applicable IM = Not Applic

ppm = parts per million

Ground Water Observed

FOR: Associated Plating

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DM_GEOSCI_1A;

Date(s) Drilled	2/21/02	Logged By	J.Dadakis	Poring P10
Drilling Method	HSA	Checked By	D.Stott	Boring B10 Sheet 1 of 1
Drill Rig Type	B-61	Drill Bit Size/Type	6"	Sneet 1 of 1
Sampling Method(s)	Large Bore Sampler	Drilling Contractor	Excel Drilling	Job Number 59-00115133.01
Approximate (Depth and Da		Hammer Data	140 lbs./30 in.	Total Depth 7.5
Comments	· ·			Approximate Ground Surface Elevation(ft)

Depth (ft)	Sample Identification	Blows per 6 inches	РГО (ррт)	Graphic Log	USCS Soil Group	MATERIAL DESCRIPTION
	B10-0.5	NA	148.0	188488 	ML ML	4" concrete slab. SILT: low plasticity, low toughness, slow dilitancy, some fine sand, slightly stiff, slightly moist, strong hydrocarbon odor, stained, dark gray (10 YR 4/1).
5	B10-5	4-4-4	61.6			CLAYEY SILT: medium plasticity, low toughness, slow dilitancy, slightly stiff (stiffer than above), slightly moist, hydrocarbon odor, stained, dark gray (5Y 4/1).
10	B10-10	14-14-20	24.1	- 64	ML.	Driller estimates 8" of gravel fill beneath slab based on rig response. SILT: low plasticity, low toughness, slow dilitancy, 10-15% fine sand, slighly moist, slightly stiff, faint hydrocarbon odor (much less that above), no, no visible staining, light olive brown (2.5Y 5/3).
15	B10-15	14-14-14	20.0			same as above.
20	B10-20	7-7-9	100.0		CI.	SILTY CLAY: medium ptasticity, low-to-medium toughness, no dilitancy, stiff, very slightly moist, hydrocarbon odor, gray (5Y 5/1).
25	B10-25	14-18-22	700.0		ML	CLAYEY SILT: low-medium plasticity, low toughness, slow dilitancy, hydrocarbon odor, greenish gray (Gley 1 5/1 10Y).
30	B10-30	12-13-14	130.0		SP	SAND: Poorly-graded, 90% fine sand, 10% medium sand, trace silt, loose, slightly moist, hydrocarbon odor, mild staining, dark grayish brown (2.5Y 4/2).
35	B10-35	51 for 6"	442.0		sw	GRAVELLY SAND: 50% fine sand, 10% medium sand, 10% coarse sand, 25% fine gravel, 5% silt, loose, moist, hydrocarbon odor, mild staining, olive gray (5Y 4/2). Boring advanced to a total depth of 40 feet below ground surface (bgs). Groundwater observed at 37 feet bgs with floating free product.
40					NOTE	Backfill with bentonite volclay grout and cap with ready-set concrete.

This log is part of the report prepared by URS for this project and should be read logeliner with the report. This summary applies only at the location of the exploration and at the lime of drilling or excavation. Subsurface conditions may driller at other locations and may change at this location with time. Data presented are a simplification of actual conditions encountered.

Sample Interval

Laboratory Sample PID = PhotoionIzation Detector

NM = Not Measured

NA = Not Applicable ppm = parts per million

No Recovery

Ground Water
Observed

LOG OF BORING

Further Investigation 9636 Ann Street

Santa Fe Springs, CA

FOR: Associated Plating



CLAYEY SILT: low-medium plasticity, low-medium toughness, no dilitancy, trace fine sand, stiff, slightly moist, hydrocarbon odor, staining, dark greenish gray (Gley 1 3/1). B11-5 16.1 ML SANDY SILT: low plasticity, low toughness, slow dilitancy, noticeably B11-7 sandier than above, hydrocarbon odor, soft, slighly moist, dark greenish \gray (Gley 1 3/1). Refusal encountered at 7.0 feet below ground surface. No groundwater observed. 10 15-20-25 30-35 NOTES LOG OF BORING Sample Interval PID Photoionization Detector

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Laboratory Sample

No Recovery

Ground Water Observed

NM = Not Measured

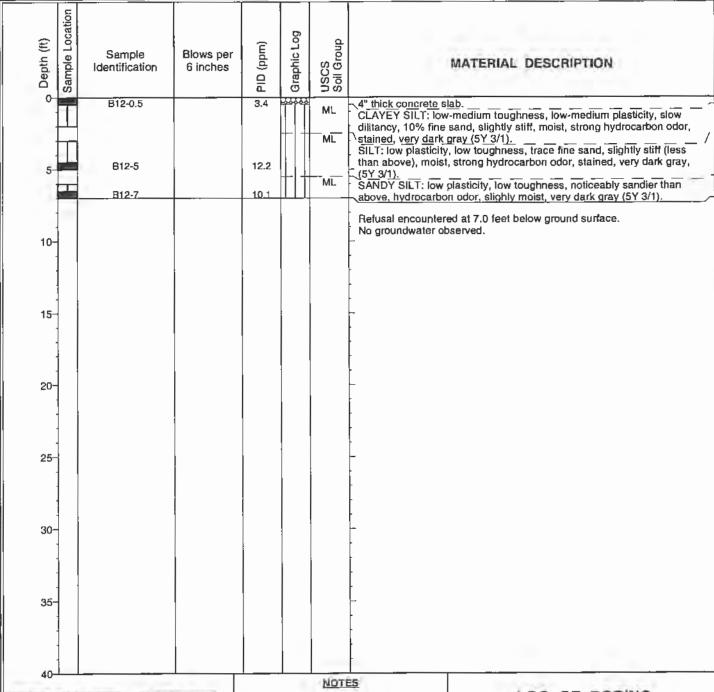
NA = Not Applicable ppm = parts per million **Further Investigation**

9636 Ann Street Santa Fe Springs, CA

FOR: Associated Plating

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DM_GEOSCI



This log is part of the report prepared by URS for this project and should be read together with the report. This summary applies only at the location of the exploration and at the time of drilling or excavation. Subsurface conditions may drilling at this location with time. Data presented are a simplification of actual conditions encountered.

Sample Interval

PID = Photoionization Detector

Laboratory Sample

NM = Not Measured

No Recovery

NA = Not Applicable ppm = parts per million

Ground Water Observed LOG OF BORING

Further Investigation

9636 Ann Street Santa Fe Springs, CA

FOR: Associated Plating

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Project File:

GEOSCI

URS

Depth (ft)	<u> </u>	Blows per 6 inches	PID (ppm)	Graphic Log	USCS Soil Group	MATERIAL DESCRIPTION
0-11	BG1-0.5		0.0		ML	CLAYEY SILT: mottles, plastic, moist, fine matrix, grayish brown.
5	BG1-5		0.0		SM	SILTY SAND: clastics to 1/4", fine matrix, angular fragments, looks to be fill, slightly moist, brown.
10	BG1-10		0.0		ML	SANDY SILT: fine-grained, plastic, moist, heavy hydrocarbon odor, staining, dark gray.
-						Boring terminated at 10.0 feet below ground auriace. No groundwater observed.
15-						
20-			i			
25-						
30-	-		:			
35-						
This log is part of project and shou This summary ap exploration and a Subsurface cond may charge at it are a simplification	the report prepared by URS diper read together with the ri- plies only at the focation of the tithe time of drilling or excav- tions may differ at other local its focation with time. Data per or of actual conditions encou	for this apport to the salion. It is a salion to the salio	Sami	ratory ole		ES PID = Photoionization Detector NM = Not Measured NA = Not Applicable NOT = pers per million Santa Fe Springs, CA

ppm = parts per million

Ground Water Observed

FOR: Associated Plating

Dala G::MAINDI-11PROJECTS:59-001-4/GRAPHICS/ASSOCI-1.GPU; Report: DM_GEDSCI_1A,

Depth (ft)	Sample Sample Identification	Blows per 6 inches	РГО (ррт)	Graphic Log	USCS Soil Group	MATERIAL DESCRIPTION
	BG2-0.5		0.0		ML	CLAYEY SILT: mottles, plastic, moist, fine matrix, grayish brown.
5	BG2-5		0,0		SM	SILTY SAND: clastics to 1/4", fine matrix, angular fragments, looks to be fill, slightly moist, brown.
10-	_BG2-10		0.0		ML	SANDY SILT: fine-grained, plastic, moist, heavy hydrocarbon odor, staining, dark gray.
		:				Boring terminated at 10.0 feet below ground surface. No groundwater observed.
15-						· - -
20						· - -
25						· - - -
30						
35						
40					NOTE	s

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Sample Interval Laboratory Sample PID = Photoionization Detector

NM = Not Measured

NA = Not Applicable ppm = parts per million

No Recovery ▼ Ground Water Observed

LOG OF BURING

Further Investigation

9636 Ann Street Santa Fe Springs, CA

FOR: Associated Plating

Data Template: DMLA.GDT -4VGHAPHICSVASSOCI-1.GPJ; GWAINDI-14PROJECTS\59-001

Project File:

Report: DM_GEOSCI_1A;

p Depth (ft)	Sample Location	Sample Identification	Blows per 6 inches	PID (ppm)	Graphic Log	USCS Soil Group	MATERIAL DESCRIPTION
0-		BG3-0.5		0.0		ML	CLAYEY SILT: mottles, plastic, moist, fine matrix, grayish brown.
5-		BG3-5		0.0		_sm	SILTY SAND: clastics to 1/4", fine matrix, angular fragments, looks to be fill, slightly moist, brown.
10-		BG3-10		0.0		ML	SANDY SILT: fine-grained, plastic, moist, heavy hydrocarbon odor, staining, dark gray.
,							Boring terminated at 10.0 feet below ground surface. No groundwater observed.
15–							
20-				,			-
25-							
30-							- -
35-							
40							
This log is pa	fi in he	ne report prepared by URS	for this	∏ Sam	ole	NOTE	S LOG OF BORING

This log is part of the report prepared by URS for this project and should be read logether with the report. This summary applies only at the location of the exploration and at the time of drilling or excavation, subsurface conditions may differ at other locations and may change at this location with time. Data presented are a simplification of actual conditions encountered. Sample Interval

Laboratory Sample PiD = Photoionization Detector

NM = Not Measured

NA = Not Applicable ppm = parts per million

No Recovery

Ground Water
Observed

Further Investigation

9636 Ann Street Santa Fe Springs, CA

FOR: Associated Plating

URS

Data 1

APPENDIX C

APPENDIX C

APPENDIX C

LABORATORY DATA

Quality Control Analysis EPA 8015M

Client: URS Corporation

Project Manager: Mauricio Escobar

Project Name Associated Plating Date Analyzed: 11/2/01

Batch: T3075

Matrix: Soil

Sample Spiked: 3075-20

Matrix Spike and Matrix Spike Duplicate Analysis

								QC L	imits
Compound	Conc. Spike Added (mg/Kg)	Sample Resutt	Conc. MS	% Rec.	Conc. MSD	% Rec.	RPD	RPD	Percent Recovery
8015M TPH	500	0	575	115	644	129	11.3	20	70-130

Analytical Report EPA 8015M

Client: URS Corporation

Project Manager: Mauricio Escobar

Project Name
Associated Plating

Sample ID: Method Blank Date Sampled: NA

Date Received: NA
Date Extracted: 11/2/01
Date Analyzed: 11/2/01
Laboratory ID: T3075-MB

Compound	Concentration (mg/Kg)	Reporting Limit (mg/Kg)
C6-C10	ND	10
C10-C28	ND	10
C29-C40	ND	10

Analytical Report EPA 8015M

Client: URS Corporation

Project Manager: Mauricio Escobar

Project Name
Associated Plating

Sample ID: BG3-0.5

Date Sampled: 11/1/01 Date Received: 11/2/01 Date Extracted: 11/2/01 Date Analyzed: 11/2/01

Laboratory ID: T3075-01

Compound	Concentration (mg/Kg)	Reporting Limit (mg/Kg)
C6-C10	ND	10
C10-C28	ND	10
C29-C40	52	10

Analytical Report EPA 8015M

Client: URS Corporation

Project Manager: Mauricio Escobar

Project Name
Associated Plating

Sample ID: BG3-5

Date Sampled: 11/1/01 Date Received: 11/2/01 Date Extracted: 11/2/01 Date Analyzed: 11/2/01

Laboratory ID: T3075-02 Matrix: Soil

Compound	Concentration (mg/Kg)	Reporting Limit (mg/Kg)
C6-C10	ND	10
C10-C28	ND	10
C29-C40	38	10

Analytical Report EPA 8015M

Client: URS Corporation

Project Manager: Mauricio Escobar

Project Name
Associated Plating

Sample ID: BG3-10

Date Sampled: 11/1/01 Date Received: 11/2/01 Date Extracted: 11/2/01

Date Analyzed: 11/2/01 Laboratory ID: T3075-03

Compound	Concentration (mg/Kg)	Reporting Limit (mg/Kg)
C6-C10	89	10
C10-C28	590	10
C29-C40	480	10

Analytical Report EPA 8015M

Client: URS Corporation

Project Manager: Mauricio Escobar

Project Name
Associated Plating

Sample ID: BG2-0.5

Date Sampled: 11/1/01 Date Received: 11/2/01 Date Extracted: 11/2/01 Date Analyzed: 11/2/01

Laboratory ID: T3075-04

Compound	Concentration (mg/Kg)	Reporting Limit (mg/Kg)
C6-C10	ND	10
C10-C28	ND	10
C29-C40	ND	10

Analytical Report EPA 8015M

Client: URS Corporation

Project Manager: Mauricio Escobar

Project Name
Associated Plating

Sample ID: BG2-5

Date Sampled: 11/1/01 Date Received: 11/2/01 Date Extracted: 11/2/01 Date Analyzed: 11/2/01

Laboratory ID: T3075-05

Compound	Concentration (mg/Kg)	Reporting Limit (mg/Kg)
C6-C10	ND	10
C10-C28	ND	10
C29-C40	ND	10

Analytical Report EPA 8015M

Client: URS Corporation

Project Manager: Mauricio Escobar

Project Name
Associated Plating

Sample ID: BG2-9 Date Sampled: 11/1/01 Date Received: 11/2/01 Date Extracted: 11/2/01

Date Analyzed: 11/2/01 Laboratory ID: T3075-06

Compound	Concentration (mg/Kg)	Reporting Limit (mg/Kg)
C6-C10	303	10
C10-C28	1900	10
C29-C40	1600	10

Analytical Report EPA 8015M

Client: URS Corporation

Project Manager: Mauricio Escobar

Project Name
Associated Plating

Sample ID: BG1-0.5

Date Sampled: 11/1/01 Date Received: 11/2/01 Date Extracted: 11/2/01

Date Analyzed: 11/2/01 Laboratory ID: T3075-07

Compound	Concentration (mg/Kg)	Reporting Limit (mg/Kg)
C6-C10	ND	10
C10-C28	ND	10
C29-C40	ND	10

Analytical Report EPA 8015M

Client: URS Corporation

Project Manager: Mauricio Escobar

Project Name
Associated Plating

Sample ID: BG1-5

Date Sampled: 11/1/01 Date Received: 11/2/01 Date Extracted: 11/2/01 Date Analyzed: 11/2/01

Laboratory ID: T3075-08

Compound	Concentration (mg/Kg)	Reporting Limit (mg/Kg)
C6-C10	ND ND	10
C10-C28	ND	10
C29-C40	ND ND	10

Analytical Report EPA 8015M

Client: URS Corporation

Project Manager: Mauricio Escobar

Project Name
Associated Plating

Sample ID: B9-0.5

Date Sampled: 11/1/01 Date Received: 11/2/01 Date Extracted: 11/2/01 Date Analyzed: 11/2/01

Laboratory ID: T3075-09

Compound	Concentration (mg/Kg)	Reporting Limit (mg/Kg)
C6-C10	ND	10
C10-C28	ND	10
C29-C40	ND	10

Analytical Report EPA 8015M

Client: URS Corporation

Project Manager: Mauricio Escobar

Project Name
Associated Plating

Sample ID: B9-5

Date Sampled: 11/1/01 Date Received: 11/2/01 Date Extracted: 11/2/01 Date Analyzed: 11/2/01 Laboratory ID: T3075-10

Compound	Concentration (mg/Kg)	Reporting Limit (mg/Kg)
C6-C10	850	10
C10-C28	3800	10
C29-C40	3000	10

Analytical Report EPA 8015M

Client: URS Corporation

Project Manager: Mauricio Escobar

Project Name
Associated Plating

Sample ID: B1-0.5

Date Sampled: 11/1/01 Date Received: 11/2/01 Date Extracted: 11/2/01

Date Analyzed: 11/2/01 Laboratory ID: T3075-11

Compound	Concentration (mg/Kg)	Reporting Limit (mg/Kg)
C6-C10	ND	10
C10-C28	ND	10
C29-C40	ND	10

Analytical Report EPA 8015M

Client: URS Corporation

Project Manager. Mauricio Escobar

Project Name
Associated Plating

Sample ID: B1-5

Date Sampled: 11/1/01 Date Received: 11/2/01 Date Extracted: 11/2/01 Date Analyzed: 11/2/01 Laboratory ID: T3075-12

Compound	Concentration (mg/Kg)	Reporting Limit (mg/Kg)
C6-C10	97	10
C10-C28	570	10
C29-C40	620	10

Analytical Report EPA 8015M

Client: URS Corporation

Project Manager: Mauricio Escobar

Project Name
Associated Plating

Sample ID: B2-0.5

Date Sampled: 11/1/01

Date Received: 11/2/01 Date Extracted: 11/2/01

Date Analyzed: 11/2/01

Laboratory ID: T3075-13

Compound	Concentration (mg/Kg)	Reporting Limit (mg/Kg)
C6-C10	ND	10
C10-C28	ND	10
C29-C40	ND	10

Analytical Report EPA 8015M

Client: URS Corporation

Project Manager: Mauricio Escobar

Project Name
Associated Plating

Sample ID: B2-5

Date Sampled: 11/1/01 Date Received: 11/2/01 Date Extracted: 11/2/01 Date Analyzed: 11/2/01

Laboratory ID: T3075-14

Compound	Concentration (mg/Kg)	Reporting Limit (mg/Kg)
C6-C10	140	10
C10-C28	640	10
C29-C40	580	10

Analytical Report EPA 8015M

Client: URS Corporation

Project Manager: Mauricio Escobar

Project Name
Associated Plating

Sample ID: B8-0.5

Date Sampled: 11/1/01 Date Received: 11/2/01

Date Extracted: 11/2/01 Date Analyzed: 11/2/01 Laboratory ID: T3075-15

Compound	Concentration (mg/Kg)	Reporting Limit (mg/Kg)
C6-C10	80	10
C10-C28	530	10
C29-C40	550	10

Analytical Report EPA 8015M

Client: URS Corporation

Project Manager: Mauricio Escobar

Project Name
Associated Plating

Sample ID: B8-5

Date Sampled: 11/1/01 Date Received: 11/2/01 Date Extracted: 11/2/01 Date Analyzed: 11/2/01 Laboratory ID: T3075-16

Compound	Concentration (mg/Kg)	Reporting Limit (mg/Kg)
C6-C10	500	10
C10-C28	2400	10
C29-C40	2000	10

Analytical Report EPA 8015M

Client: URS Corporation

Project Manager: Mauricio Escobar

Project Name Associated Plating Sample ID: B7-3

Date Sampled: 11/1/01 Date Received: 11/2/01 Date Extracted: 11/2/01 Date Analyzed: 11/2/01

Laboratory ID: T3075-17

Compound	Concentration (mg/Kg)	Reporting Limit (mg/Kg)
C6-C10	ND	10
C10-C28	ND	10
C29-C40	ND .	10

Analytical Report EPA 8015M

Client: URS Corporation

Project Manager: Mauricio Escobar

Project Name
Associated Plating

Sample ID: B7-5

Date Sampled: 11/1/01 Date Received: 11/2/01 Date Extracted: 11/2/01 Date Analyzed: 11/2/01 Laboratory ID: T3075-18

Compound	Concentration (mg/Kg)	Reporting Limit (mg/Kg)
C6-C10	23	10
C10-C28	25	10
C29-C40	ND	10

Analytical Report EPA 8015M

Client: URS Corporation

Project Manager: Mauricio Escobar

Project Name
Associated Plating

Sample ID: B6-0.5

Date Sampled: 11/1/01

Date Received: 11/2/01 Date Extracted: 11/2/01 Date Analyzed: 11/2/01

Laboratory ID: T3075-19

Compound	Concentration (mg/Kg)	Reporting Limit (mg/Kg)
C6-C10	520	10
C10-C28	2100	10
C29-C40	2000	10

Analytical Report EPA 8015M

Client: URS Corporation

Project Manager: Mauricio Escobar

<u>Project Name</u> Associated Plating Sample ID: B6-5

Date Sampled: 11/1/01 Date Received: 11/2/01 Date Extracted: 11/2/01 Date Analyzed: 11/2/01 Laboratory ID: T3075-20

Compound	Concentration (mg/Kg)	Reporting Limit (mg/Kg)
C6-C10	ND	10
C10-C28	14	10
C29-C40	ND	10

Analytical Report EPA 8015M

Client: URS Corporation

Project Manager: Mauricio Escobar

Project Name
Associated Plating

Sample ID: EB-1

Date Sampled: 11/1/01 Date Received: 11/2/01 Date Extracted: 11/2/01 Date Analyzed: 11/2/01

Laboratory ID: T3075-21

Matrix: Water

Compound	Concentration (mg/L)	Reporting Limit (mg/L)
C6-C10	ND	0.1
C10-C28	ND	0.1
C29-C40	ND	0.1

TTLC Metal Analysis

MS/MSD Report

Client: URS Corporation

Project Manager: Mauricio Escobar

Project Name Associated Plating Date Extracted: 11/6/01 Date Analyzed: 11/6/01

Batch: T3075 Matrix: Soil

Sample Spiked: 3075-15

Metal Analysis by I.C.P. EPA 6010

						QC Limits		
Element	Amt Spiked	MS rec.	MS %	MSD rec.	MSD %	RPD	RPD	%Rec.
Arsenic	100	98	98	95	95	3.1	30	75-125
Beryllium	100	102	102	97	97	5.0	30	75-125
Cadmium	100	99	99	94	94	5.2	30	75-125
Chromium	100	97	97	90	90	7.5	30	75-125
Lead	100	103	103	96	96	7.0	30	75-125

TTLC Metal Analysis

Client: URS Corporation

Project Manager. Mauricio Escobar

Project Name
Associated Plating

Sample I.D.: Method Blank

Date Sampled: NA
Date Received: NA
Date Extracted: 11/6/01
Date Analyzed: 11/6/01
Laboratory ID: T3075-MB

Matrix: Soil Conc. Unit: mg/Kg

Metal Analysis by I.C.P. EPA 6010

Element	Results	R.L.
Antimony	ND	2
Arsenic	ND	5
Barium	ND	1
Beryllium	ND	1
Cadmium	ŅD	1
Chromium	ND	1
Cobalt	ND	1
Соррег	ND	1
Lead	ND	1
Mercury	ND	0.1
Molybdenum	ND	1
Nickel	ND	1
Selenium	ND	5
Silver	ND	2
Thallium	ND	2
Vanadium	ND	11
Zinc	ND	1

TTLC Metal Analysis

Client: URS Corporation

Project Manager: Mauricio Escobar

Project Name
Associated Plating

Sample ID: BG3-0.5 Date Sampled: 11/1/01 Date Received: 11/2/01 Date Extracted: 11/6/01 Date Analyzed: 11/6/01 Laboratory ID: T3075-01

Matrix: Soil

Conc. Unit; mg/Kg

Metal Analysis by I.C.P. EPA 6010

Element	Results	R.L.
Antimony	ND	2
Arsenic	ND	5
Barium	92	1
Beryllium	ND	1
Cadmium	ND	1
Chromium	15	1
Cobalt	11	1
Copper	20	1
Lead	12	1
Mercury	ND	0.1
Molybdenum	2	1
Nickel	13	1
Selenium	ND	5
Silver	ND ND	2
Thallium	ND ND	2
Vanadium	20	1
Zinc	23	1

TTLC Metal Analysis

Client: URS Corporation

Project Manager: Mauricio Escobar

Project Name
Associated Plating

Sample ID: BG3-5 Date Sampled: 11/1/01 Date Received: 11/2/01 Date Extracted: 11/6/01 Date Analyzed: 11/6/01 Laboratory ID: T3075-02

Matrix: Soil Cond. Unit: mg/Kg

Metal Analysis by I.C.P. EPA 6010

Element	Results	R.L.
Antimony	ND	2
Arsenic	ND	5
Barium	75	1
Beryllium	ND	1
Cadmium	ND	1
Chromium	11	1
Cobalt	10	1
Copper	14	1
Lead	13	1
Mercury	ND	0.1
Molybdenum	2	1
Nickel	11	1
Selenium	ND ND	5
Silver	ND	2
Thallium	ND	2
Vanadium	12	1
Zinc	10	1

TTLC Metal Analysis

Client: URS Corporation

Project Manager. Mauricio Escobar

Project Name
Associated Plating

Sample ID: BG3-10 Date Sampled: 11/1/01 Date Received: 11/2/01 Date Extracted: 11/6/01 Date Analyzed: 11/6/01 Laboratory ID: T3075-03

Matrix: Soil Conc. Unit: mg/Kg

Metal Analysis by I.C.P. EPA 6010

Element	Results	R.L.
Antimony	ND	2
Arsenic	ND ND	5
Barium	190	1
Beryllium	ND	1
Cadmium	ND ND	
Chromium	30	1
Cobalt	15	1
Copper	40	1
Lead	19	1
Mercury	ND	0.1
Molybdenum	2	1
Nickel	19	1
Selenium	ND ND	5
Silver	ND	2
Thallium	ND	2
Vanadium	47	1
Zinc	31	1

TTLC Metal Analysis

Client: URS Corporation

Project Manager: Mauricio Escobar

Project Name
Associated Plating

Sample ID: BG2-0.5 Date Sampled: 11/1/01 Date Received: 11/2/01 Date Extracted: 11/6/01 Date Analyzed: 11/6/01

Laboratory ID: T3075-04

Matrix: Soil Conc. Unit: mg/Kg

Metal Analysis by I.C.P. EPA 6010

Element	Results	R.L.
Antimony	ND	2
Arsenic	ND	5
Barium	77	1
Beryllium	ND	1
Cadmium	ND	1
Chromium	9	1
Cobalt	8	1
Copper	15	1
Lead	12	1
Mercury	ND	0.1
Molybdenum	1	1
Nickel	9	1
Selenium	ND ND	5
Silver	ND	2
Thallium	ND	2
Vanadium	13	1
Zinc	30	1

TTLC Metal Analysis

Client: URS Corporation

Project Manager: Mauricio Escobar

Project Name Associated Plating Sample ID: BG2-5 Date Sampled: 11/1/01 Date Received: 11/2/01 Date Extracted: 11/6/01

Date Analyzed: 11/6/01 Laboratory ID: T3075-05

Matrix: Soil Conc. Unit: mg/Kg

Metal Analysis by I.C.P. EPA 6010

Element	Results	R.L.
Antimony	ND	2
Arsenic	ND	5
Barium	42	1
Beryllium	ND	1
Cadmium	ND	1
Chromium	8	1
Cobalt	5	1
Copper	10	11
Lead	9	1
Mercury	ND	0.1
Molybdenum	1	1
Nickel	7	1
Selenium	ND	5
Silver	ND	2
Thallium	ND	2
Vanadium	9	. 1
Zinc	6	1

TTLC Metal Analysis

Client: URS Corporation

Project Manager: Mauricio Escobar

Project Name
Associated Plating

Sample ID: BG2-9 Date Sampled: 11/1/01

Date Received: 11/2/01 Date Extracted: 11/6/01 Date Analyzed: 11/6/01 Laboratory ID: T3075-06

Matrix: Soil Conc. Unit: mg/Kg

Metal Analysis by I.C.P. EPA 6010

Element	Results	R,L.
Antimony	ND	2
Arsenic	ND	5
Barium	120	1
Beryllium	ND ND	111
Cadmium	ND ND	11
Chromium	19	1
Cobalt	12	1
Copper	24	1
Lead	12	. 1
Mercury	ND ND	0.1
Molybdenum	2	1
Nickel	13	1
Selenium	ND ND	5
Silver	ND	2
Thallium	ND	2
Vanadium	32	1
Zinc	17	1

TTLC Metal Analysis

Client: URS Corporation

Project Manager: Mauricio Escobar

Project Name
Associated Plating

Sample ID: BG1-0.5 Date Sampled: 11/1/01 Date Received: 11/2/01 Date Extracted: 11/6/01 Date Analyzed: 11/6/01

Laboratory ID: T3075-07 Matrix: Soil Conc. Unit: mg/Kg

Metal Analysis by I.C.P. EPA 6010

Element	Results	R.L.
Antimony	ND	2
Arsenic	ND	5
Barium	74	11
Beryllium	ND	1
Cadmium	ND ND	1
Chromium	9	1
Cobalt	8	1
Copper	12	1
Lead	11	1
Mercury	ND ND	0.1
Molybdenum	1	1
Nickel	8	1
Selenium	ND ND	5
Silver	ND ND	2
Thallium	ND ND	2
Vanadium	13	1
Zinc	8	1

TTLC Metal Analysis

Client: URS Corporation

Project Manager: Mauricio Escobar

Project Name
Associated Plating

Sample ID: BG1-5 Date Sampled: 11/1/01 Date Received: 11/2/01

Date Extracted: 11/6/01 Date Analyzed: 11/6/01 Laboratory ID: T3075-08

Matrix: Soil Conc. Unit: mg/Kg

Metal Analysis by I.C.P. EPA 6010

Element	Results	R.L.
Antimony	ND	2
Arsenic	ND ND	5
Barium	140	1
Beryllium	ND ND	1
Cadmium	ND	1
Chromium	20	1
Cobalt	16	1
Copper	27	1
Lead	16	_ 1
Mercury	ND	0.1
Molybdenum	2	1
Nickel	16	1
Selenium	ND	5
Silver	ND	2
Thallium	ND	2
Vanadium	43	1
Zinc	18	1

TTLC Metal Analysis

Client: URS Corporation

Project Manager: Mauricio Escobar

Project Name
Associated Plating

Sample ID: B1-0.5 Date Sampled: 11/1/01 Date Received: 11/2/01

Date Extracted: 11/6/01 Date Analyzed: 11/6/01 Laboratory ID: T3075-11

Matrix: Soil Conc. Unit: mg/Kg

Metal Analysis by I.C.P. EPA 6010

Element	Results	R,L.
Antimony	ND	2
Arsenic	ND	5
Barium	110	1
Beryllium	ND	1
Cadmium	ND ND	1
Chromium	13	1
Cobalt	11	1
Соррег	24	1
Lead	12	1
Mercury	ND	0.1
Molybdenum	2	1
Nickel	14	1
Selenium	ND	5
Silver	ND	2
Thallium	ND	2
Vanadium	21	1
Zinc	14	1

TTLC Metal Analysis

Client: URS Corporation

Project Manager: Mauricio Escobar

Project Name
Associated Plating

Sample ID: B1-5

Date Sampled: 11/1/01 Date Received: 11/2/01

Date Extracted: 11/6/01 Date Analyzed: 11/6/01

Laboratory ID: T3075-12

Matrix: Soil Conc. Unit: mg/Kg

Metal Analysis by I.C.P. EPA 6010

Element	Results	R.L.
Antimony	ND	2
Arsenic	ND	5
Barium	120	1
Beryllium	ND	1
Cadmium	ND ND	1
Chromium	17	1
Cobalt	13	1
Соррег	25	1
Lead	13	1
Mercury	ND	0.1
Molybdenum	2	1
Nickel	12	1
Selenium	ND	5
Silver	ND	2
Thallium	ND	2
Vanadium	33	1
Zinc	16	1

TTLC Metal Analysis

Client: URS Corporation

Project Manager: Mauricio Escobar

Project Name
Associated Plating

Sample ID: B2-0.5 Date Sampled: 11/1/01 Date Received: 11/2/01

Date Extracted: 11/6/01 Date Analyzed: 11/6/01 Laboratory ID: T3075-13

Matrix: Soil

Conc. Unit: mg/Kg

Metal Analysis by I.C.P. EPA 6010

Element	Results	R.L.
Antimony	ND	2
Arsenic	ND	5
Barium	160	11
Beryllium	ND	1
Cadmium	ND	1
Chromium	15	1
Cobalt	14	1
Соррег	39	1
Lead	12	11
Mercury	ND	0.1
Molybdenum	1	1
Nickel	29	1
Selenium	ND	5
Silver	ND	2
Thallium	ND	2
Vanadium	28	1
Zinc	33	1

TTLC Metal Analysis

Client: URS Corporation

Project Manager: Mauricio Escobar

<u>Project Name</u> Associated Plating Sample ID: B2-5

Date Sampled: 11/1/01 Date Received: 11/2/01 Date Extracted: 11/6/01

Date Analyzed: 11/6/01 Laboratory ID: T3075-14

Matrix: Soil Conc. Unit: mg/Kg

Metal Analysis by I.C.P. EPA 6010

Element	Results	R.L.
Antimony	ND	2
Arsenic	ND	5
Barium	190	1
Beryllium	ND	1
Cadmium	ND ND	1
Chromium	28	1
Cobalt	17	1
Copper	42	1
Lead	14	11
Mercury	ND	0.1
Molybdenum	2	1
Nickel	20	1
Selenium	ND	5
Silver	ND	2
Thallium	ND ND	2
Vanadium	47	1
Zinc	36	1

TTLC Metal Analysis

Client: URS Corporation

Project Manager: Mauricio Escobar

Project Name
Associated Plating

Sample ID: B8-0.5 Date Sampled: 11/1/01 Date Received: 11/2/01 Date Extracted: 11/6/01 Date Analyzed: 11/6/01

Laboratory ID: T3075-15

Matrix: Soil Conc. Unit: mg/Kg

Metal Analysis by I.C.P. EPA 6010

Element	Results	R.L.
Antimony	ND	2
Arsenic	ND ND	5
Barium	220	1
Beryllium	ND	1
Cadmium	ND	1
Chromium	22	1
Cobalt	17	1
Copper	130	1
Lead	15	11
Mercury	ND	0.1
Molybdenum	2	1
Nickel	20	1
Selenium	ND	5
Silver	ND ND	2
Thallium	ND	2
Vanadium	38	1
Zinc	26	1

TTLC Metal Analysis

Client: URS Corporation

Project Manager: Mauricio Escobar

Project Name
Associated Plating

Sample ID: B8-5

Date Sampled: 11/1/01 Date Received: 11/2/01 Date Extracted: 11/6/01 Date Analyzed: 11/6/01

Laboratory ID: T3075-16

Matrix: Soil Conc. Unit: mg/Kg

Metal Analysis by I.C.P. EPA 6010

Element	Results	R.L.
Antimony	ND	2
Arsenic	ND ND	5
Barium	110	1
Beryllium	_ ND	1
Cadmium	ND	1
Chromium	15	1
Cobalt	11	11
Соррег	20	1
Lead	9	1
Mercury	ND	0.1
Molybdenum	1	1
Nicket	12	1
Selenium	ND	5
Silver	ND	2
Thallium	ND	22
Vanadium	23	11
Zinc	15	1

TTLC Metal Analysis

Client: URS Corporation

Project Manager: Mauricio Escobar

Project Name
Associated Plating

Sample ID: EB-1 Date Sampled: 11/1/01 Date Received: 11/2/01 Date Extracted: 11/6/01

Date Analyzed: 11/6/01 Laboratory ID: T3075-21

Matrix: Water Conc. Unit: µg/L

Metal Analysis by I.C.P. EPA 6010

Element	Results	R.L.
Antimony	ND	100
Arsenic	ND ND	250
Barium	61	50
Beryllium	ND	50
Cadmium	ND	50
Chromium	ND	50
Cobalt	ND	50
Copper	ND ND	50
Lead	ND	50
Mercury	ND	0.5
Molybdenum	ND	50
Nickel	ND	50
Selenium	ND	250
Silver	ND	100
Thallium	ND ND	100
Vanadium	ND	50
Zinc	52	50

Analytical Report for pH

Client: URS Corporation

Project Manager: Mauricio Escobar

Project Name
Associated Plating

Sample ID: BG3-0.5 Date Sampled: 11/1/01

Date Received: 11/2/01 Date Analyzed: 11/2/01 Laboratory ID: T3075-01

Compound	Reading	Range
pH	7.6	0-14

Analytical Report for pH

Client: URS Corporation

Project Manager. Mauricio Escobar

<u>Project Name</u> Associated Plating Sample ID: BG3-5 Date Sampled: 11/1/01

Date Received: 11/2/01 Date Analyzed: 11/2/01 Laboratory ID: T3075-02

Compound	Reading	Range
рН	8.0	0-14

Analytical Report for pH

Client: URS Corporation

Project Manager: Mauricio Escobar

Project Name
Associated Plating

Sample ID: BG3-10

Date Sampled: 11/1/01 Date Received: 11/2/01

Date Analyzed: 11/2/01 Laboratory ID: T3075-03

Compound	Reading	Range
pН	7.9	0-14

Analytical Report for pH

Client: URS Corporation

Project Manager: Mauricio Escobar

Project Name
Associated Plating

Sample ID: BG2-0.5 Date Sampled: 11/1/01 Date Received: 11/2/01

Date Analyzed: 11/2/01 Laboratory ID: T3075-04

Compound	Reading	Range
pH	8.0	0-14

Analytical Report for pH

Client: URS Corporation

Project Manager: Mauricio Escobar

Project Name
Associated Plating

Sample ID: BG2-5

Date Sampled: 11/1/01 Date Received: 11/2/01 Date Analyzed: 11/2/01 Laboratory ID: T3075-05

Compound	Reading	Range
рН	7.9	0-14

Analytical Report for pH

Client: URS Corporation

Project Manager: Mauricio Escobar

Project Name
Associated Plating

Sample ID: BG2-9 Date Sampled: 11/1/01

Date Received: 11/2/01 Date Analyzed: 11/2/01 Laboratory ID: T3075-06

Сотроилд	Reading	Range
pH	8.1	C-14

Analytical Report for pH

Client: URS Corporation

Project Manager: Mauricio Escobar

Project Name
Associated Plating

Sample ID: BG1-0.5 Date Sampled: 11/1/01

Date Received: 11/2/01 Date Analyzed: 11/2/01 Laboratory ID: T3075-07

Compound	Reading	Range
pH	7.8	0-14

D			

Analytical Report for pH

Client: URS Corporation

Project Manager: Mauricio Escobar

Project Name Associated Plating Sample ID: BG1-5

Date Sampled: 11/1/01 Date Received: 11/2/01

Date Analyzed: 11/2/01 Laboratory ID: T3075-08

Compound	Reading	Range
pH	7.8	0-14

Analytical Report for pH

Client: URS Corporation

Project Manager: Mauricio Escobar

Project Name
Associated Plating

Sample ID: B9-0.5

Date Sampled: 11/1/01 Date Received: 11/2/01 Date Analyzed: 11/2/01 Laboratory ID: T3075-09

Compound	Reading	Range
pH	8.1	0-14

Analytical Report for pH

Client: URS Corporation

Project Manager: Mauricio Escobar

Project Name
Associated Plating

Sample ID: B9-5

Date Sampled: 11/1/01 Date Received: 11/2/01 Date Analyzed: 11/2/01 Laboratory ID: T3075-10

Compound	Reading	Range
рН	7,9	0-14

Analytical Report for pH

Client: URS Corporation

Project Manager: Mauricio Escobar

Project Name
Associated Plating

Sample ID: B1-0.5

Date Sampled: 11/1/01 Date Received: 11/2/01 Date Analyzed: 11/2/01 Laboratory ID: T3075-11

Compound	Reading	Range
рН	8.0	0-14

Analytical Report for pH

Client: URS Corporation

Project Manager: Mauricio Escobar

Project Name Associated Plating Sample ID: B1-5

Date Sampled: 11/1/01 Date Received: 11/2/01 Date Analyzed: 11/2/01 Laboratory ID: T3075-12

Compound	Reading	Range	
рН	7.9	0-14	

Analytical Report for pH

Client: URS Corporation

Project Manager: Mauricio Escobar

Project Name
Associated Plating

Sample ID: B2-0.5 Date Sampled: 11/1/01 Date Received: 11/2/01

Date Analyzed: 11/2/01 Laboratory ID: T3075-13

Compound	Reading	Range	
pH	8.3	0-14	

Analytical Report for pH

Client: URS Corporation

Project Manager: Mauricio Escobar

Project Name Associated Plating Sample ID: B2-5

Date Sampled: 11/1/01 Date Received: 11/2/01 Date Analyzed: 11/2/01 Laboratory ID: T3075-14

Compound	Reading	Range	
pH	8.0	0-14	

Analytical Report for pH

Client: URS Corporation

Project Manager: Mauricio Escobar

Project Name
Associated Plating

Sample 1D: B8-0.5

Date Sampled: 11/1/01 Date Received: 11/2/01 Date Analyzed: 11/2/01 Laboratory ID: T3075-15

Compound	Reading	Range	
pH	8.2	0-14	

Analytical Report for pH

Client: URS Corporation

Project Manager: Mauricio Escobar

Project Name
Associated Plating

Sample ID: B8-5

Date Sampled: 11/1/01 Date Received: 11/2/01 Date Analyzed: 11/2/01 Laboratory ID: \(\) \

Сотроили	Reading	Range
pH_	7.6	0-14

Analytical Report for pH

Client: URS Corporation

Project Manager: Mauricio Escobar

Project Name Associated Plating Sample ID: EB-1

Date Sampled: 11/1/01 Date Received: 11/2/01 Date Analyzed: 11/2/01 Laboratory ID: T3075-21

Matrix: Water

Compound	Reading	Range
pH	7.4	0-14

Quality Control Analysis EPA 8260

Client: URS Corporation

Project Manager: Mauricio Escobar

Project Name Associated Plating Date Analyzed: 11/5/01

Batch: T3075

Matrix: Soil

Sample Spiked 3076-05

Matrix Spike and Matrix Spike Duplicate Analysis

				QC	Limits				
Compound	Conc.Spike Added(µg/Kg)	Sample Result	Conc. MS	% Rec.	Canc. MSD	% Rec.	RPD	RPD	Percent Recovery
1,1 Dichloroethene	100	0.0	91	91	90	90	1,1	20	75-125
Benzene	100	0.0	94	94	91	91	3.2	20	75-1 <u>25</u>
Trichloroethene	100	0.0	92	92	90	90	2.2	20	75-125
Toluene	100	0.0	92	92	89	89	3.3	20	75-125
Chlorobenzene	100	0.0	91	91	92	92	1.1	20	75-125

Analytical Report EPA 8260

Client: URS Corporation

Project Manager: Mauricio Escobar

Project Name
Associated Plating

Sample ID: Method Blank Date Sampled: NA Date Received: NA

Date Analyzed: 11/2/01 Laboratory ID: T3075-MB

Surrogate Compounds	Conc.(µg/Kg)	%Rec.	
Dibromofluoromethane	38.79	97	
Toluene-d8	40.57	101	
4-Bromofluorobenzene	36.53	91	

Compound	Conc.	RL
Compound	(μg/Kg)	(μg/Kg)
Dichlorodifluoromethane	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	10
1,1-Dichloroethene	ND	10
Methylene chloride	ND	10
trans-1,2-Dichloroethene	ND	10
1,1-Dichloroethane	ND	10
2,2-Dichloropropane	ND	5
cis-1,2-Dichloroethene	ND	5
Bromochloromethane	ND	5
Chloroform	ND	5
1,1,1-Trichloroethane	ND	5
Carbon Tetrachloride	ND	5
1-1-Dichloropropene	ND	5
Benzene	ND	5
1,2-Dichloroethane	ND	5
Trichloroethene	ND	5
1,2-Dichloropropane	ND	5
Dibromomethane	ND	5
Bromodichloromethane	ND	5
cis-1,3-Dichloropropene	ND	5
Toluene	ND	5
trans-1,3-Dichloropropene	ND	5
1,1,2-Trichloroethane	ND	_ 5
Tetrachloroethene	ND	5
1,3-Dichloropropane	ND	5
Dibromochloromethane	ND ND	5

Compound	Conc.	RL
	(µg/Kg)	(µg/Kg)
1,2-Dibromoethane	ND	5
Chlorobenzene	ND	_5
1,1,1,2-Tetrachloroethane	ND	5
Ethyl benzene	ND	5
m&p-Xylene	ND	10
o-Xylene	ND	5
Styrene	ND	5
Bromoform	ND	5
Isopropyibenzene	ND	5
Bromobenzene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
1,2,3-Trichloropropane	ND	5
n-Propylbenzene	ND	5
2-Chlorotoluene	DND	5
4-Chlorotoluene	ND	5
1,3,5-Trimethylbenzene	ND	5
tert-Butylbenzene	ND	5
1,2,4-Trimethylbenzene	ND	5
sec-Butylbenzeпе	ND	5
1,3-Dichlorobenzene	ND	5
p-Isopropyltoluene	ND	5
1,4-Dichlorobenzene	ND	5
1,2-Dichlorobenzene	ND	5
n-Butylbenzene	ND	5
1,2-Dibromo-3-chloropropane	ND	5
1,2,4-Trichlorobenzene	ND	10
Hexachlorobutadiene	ND	10
Naphthalene	ND	10
1,2,3-Trichlorobenzene	ND	10
	<u> </u>	

Analytical Report EPA 8260

Client: URS Corporation

Project Manager: Mauricio Escobar

Project Name Associated Plating Sample ID: BG3-0.5 Date Sampled: 11/1/01 Date Received: 11/2/01

Date Analyzed: 11/2/01 Laboratory ID: T3075-01

Surrogate Compounds	Conc.(µg/Kg)	%Rec
Dibromofluoromethane	36.02	90
Toluene-d8	40.09	100
4-Bromofluorobenzene	37.62	94

Compound	Conc.	RL
Compound	(µg/Kg)	(µg/Kg)
Dichlorodifluoromethane	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	10
1,1-Dichloroethene	ND	10
Methylene chloride	ND	10
trans-1,2-Dichloroethene	ND	10
1,1-Dichloroethane	ND	10
2,2-Dichloropropane	ND	5
cis-1,2-Dichloroethene	ND	5
Bromochloromethane	ND	5
Chloroform	ND	5
1,1,1-Trichloroethane	ND	5
Carbon Tetrachloride	ND	5
1-1-Dichloropropene	ND	5
Benzene	ND	5
1,2-Dichloroethane	ND	5
Trichloroethene	ND	5
1,2-Dichloropropane	ND	5
Dibromomethane	ND	5
Bromodichloromethane	ND	5
cis-1,3-Dichloropropene	ND	5
Toluene	ND	5
trans-1,3-Dichloropropene	ND	5
1,1,2-Trichloroethane	NĐ	5
Tetrachloroethene	ND	5
1,3-Dichloropropane	ND	5
Dibromochloromethane	ND	5

Campanad	Conc.	RL
Compound	(µg/Kg)	(µg/Kg)
1,2-Dibromoethane	ND	5
Chlorobenzene	ND	5
1,1,1,2-Tetrachloroethane	ND	5
Ethyl benzene	ND	5
m&p-Xylene	ND	10
o-Xylene	ND	5
Styrene	ND ND	5
Bromoform	ND	5
Isopropylbenzene	ND ND	5
Bromobenzene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
1,2,3-Trichloropropane	ND	5
n-Propylbenzene	ND	5
2-Chlarotoluene	ND	5
4-Chlorotoluene	ND	5
1,3,5-Trimethylbenzene	ND	5
tert-Butylbenzene	ND	. 5
1,2,4-Trimethylbenzene	ND	5
sec-Butylbenzene	ND	5
1,3-Dichlorobenzene	ND ND	5
p-Isopropyltoluene	ND	5
1,4-Dichlorobenzene	ND	5
1,2-Dichlorobenzene	ND	5
n-Butylbenzene	ND	5
1,2-Dibromo-3-chloropropane	ND	5
1,2,4-Trichlorobenzene	ND	10
Hexachlorobutadiene	ND	10
Naphthalene	ND	10
1,2,3-Trichlorobenzene	ND	10

Analytical Report EPA 8260

Client: URS Corporation

Project Manager: Mauricio Escobar

Project Name
Associated Plating

Sample ID: BG3-5

Date Sampled: 11/1/01 Date Received: 11/2/01 Date Analyzed: 11/2/01 Laboratory ID: T3075-02

Surrogate Compounds	Conc.(µg/Kg)	<u>%Rec.</u>
Dibromofluoromethane	37.94	95
Toluene-d8	41.57	104
4-Bromofluorobenzene	36.99	92

Company	Conc.	RL
Compound	(μg/Kg)	(µg/Kg)
Dichlorodifluoromethane	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	10
1,1-Dichloroethene	ND	10
Methylene chloride	ND	10
trans-1,2-Dichloroethene	ND	10
1,1-Dichloroethane	ND	10
2,2-Dichloropropane	ND	5
cis-1,2-Dichloroethene	ND	5
Bromochloromethane	ND	5
Chloroform	ND	5
1,1,1-Trichloroethane	ND	5
Carbon Tetrachloride	ND	5
1-1-Dichloropropene	ND	5
Benzene	ND	5
1,2-Dichloroethane	ND	5
Trichloroethene	ND	5
1,2-Dichloropropane	ND	5
Dibromomethane	ND	5
Bromodichloromethane	ND	5
cis-1,3-Dichloropropene	ND	5
Toluene	ND	5
trans-1,3-Dichloropropene	ND	5
1,1,2-Trichloroethane	ND	5
Tetrachloroethene	ND	5
1,3-Dichloropropane	ND	5
Dibromochloromethane	ND	5

Compound	Conc.	RL
Compound	(µg/Kg)	(µg/Kg)
1,2-Dibromoethane	ND _	5
Chlorobenzene	ND	5
1,1,1,2-Tetrachloroethane	ND	5
Ethyl benzene	ND	5
m&p-Xylene	ND	10
o-Xylene	ND	5_
Styrene	ND	. 5
Bromoform	ND	5
Isopropylbenzene	ND	5
Bromobenzene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
1,2,3-Trichloropropane	ND	5
n-Propylbenzene	ND	5
2-Chlorotoluene	ND	5
4-Chlorotoluene	ND	5
1,3,5-Trimethylbenzene	ND	5
tert-Butylbenzene	ND	5
1,2,4-Trimethylbenzene	ND	5
sec-Butylbenzene	ND	5
1,3-Dichlorobenzene	ND	5
p-Isopropyltoluene	ND	5
1,4-Dichlorobenzene	ND	5
1,2-Dichlorobenzene	ND	5
n-Butylbenzene	ND	5
1,2-Dibromo-3-chloropropane	ND	5
1,2,4-Trichlorobenzene	ND	10_
Hexachlorobutadiene	ND	10
Naphthalene	ND	10
1,2,3-Trichlorobenzene	ND	10

Analytical Report EPA 8260

Client: URS Corporation

Project Manager: Mauricio Escobar

Project Name
Associated Plating

Sample ID: BG3-10 Date Sampled: 11/1/01 Date Received: 11/2/01

Date Analyzed: 11/2/01 Laboratory ID: T3075-03

Surrogate Compounds	Conc.(µg/Kg)	%Rec
Dibromofluoromethane	37.45	94
Toluene-d8	41.31	103
4-Bromofluorobenzene	40.16	100

Compound	Conc.	RL
Compound	(μg/Kg)	(µg/Kg)
Dichlorodifluoromethane	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	10
1,1-Dichloroethene	ND	10
Methylene chloride	ND	10
trans-1,2-Dichloroethene	ND	10
1,1-Dichloroethane	ND	10
2,2-Dichloropropane	ND	5
cis-1,2-Dichloroethene	ND	5
Bromochloromethane	ND	5
Chloroform	ND	5
1,1,1-Trichloroethane	ND	5
Carbon Tetrachloride	ND	5
1-1-Dichloropropene	ND	5
Benzene	ND	5
1,2-Dichloroethane	ND	5
Trichloroethene	ND	5
1,2-Dichloropropane	ND	5
Dibromomethane	ND	5
Bromodichloromethane	ND	5
cis-1,3-Dichloropropene	ND	5
Toluene	ND	5
trans-1,3-Dichloropropene	ND	5
1,1,2-Trichloroethane	ND	5
Tetrachloroethene	ND	5
1,3-Dichloropropane	ND	5
Dibromochloromethane	ND	5

Compound	Conc.	RL
Compound	(µg/Kg)	(µg/Kg)
1,2-Dibromoethane	ND	5
Chlorobenzene	ND	5
1,1,1,2-Tetrachloroethane	ND	5
Ethyl benzene	ND	5
m&p-Xylene	ND	10
o-Xylene	ND	5
Styrene	ND	5
Bromaform	ND	5
Isopropylbenzene	11 _	5
Bromobenzene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
1,2,3-Trichloropropane	ND	5
n-Propylbenzene	14	5
2-Chlorotoluene	ND	5
4-Chlorotoluene	ND	5
1,3,5-Trimethylbenzene	ND	5
tert-Butylbenzene	ND	5
1,2,4-Trimethylbenzene	ND	5
sec-Butylbenzene	29	5
1,3-Dichlorobenzene	ND	5
p-Isopropyltoluene	ND	5
1,4-Dichlorobenzene	ND	5
1,2-Dichlorobenzene	ND	5
n-Butylbenzene	ND	5
1,2-Dibromo-3-chloropropane	ND	5
1,2,4-Trichlorobenzene	ND	10
Hexachlorobutadiene	ND	10
Naphthalene	77	10
1,2,3-Trichlorobenzene	ND	10

Analytical Report EPA 8260

Client: URS Corporation

Project Manager: Mauricio Escobar

Project Name
Associated Plating

Sample ID: BG2-0.5 Date Sampled: 11/1/01 Date Received: 11/2/01 Date Analyzed: 11/2/01 Laboratory ID: T3075-04

Surrogate Compounds	Conc.(µg/Kg)	%Rec.
Dibromofluorometharie	38.30	96
Toluene-d8	41.01	103
4-Bromofluorobenzene	38.30	96

0	Conc.	RL
Compound	_(µg/Kg)	(µg/Kg)
Dichlorodifluoromethane	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	10
1,1-Dichloroethene	ND	10
Methylene chloride	ND	10
trans-1,2-Dichloroethene	ND _	10
1,1-Dichloroethane	ND ND	10
2,2-Dichloropropane	ND	5
cis-1,2-Dichloroethene	ND	5
Bromochloromethane	ND	5
Chloroform	ND	5
1,1,1-Trichloroethane	DN	5
Carbon Tetrachloride	ND	5
1-1-Dichloropropene	ND	5
Benzene	ND	5
1,2-Dichloroethane	ND	5
Trichloroethene	ND	5
1,2-Dichloropropane	ND ND	5
Dibromomethane	ND	5
Bromodichloromethane	ND	5
cis-1,3-Dichloropropene	ND	5
Toluene	ND	5
trans-1,3-Dichloropropene	ND	- 5
1,1,2-Trichloroethane	ND	5
Tetrachloroethene	ND	5
1,3-Dichloropropane	ND	5
Dibromochloromethane	ND	5

Campanad	Conc.	RL
Compound	(µg/Kg)	(µg/Kg)
1,2-Dibromoethane	ND	5
Chlorobenzene	ND	5
1,1,1,2-Tetrachloroethane	ND	5
Ethyl benzene	ND	5
m&p-Xylene	ND	10
o-Xylene	ND	5
Styrene	ND	5
Bromoform	ND	5
Isopropylbenzene	ND	5
Bromobenzene	ND	5
1,1,2,2-Tetrachloroethane	ИD	5
1,2,3-Trichloropropane	ND	5
n-Propylbenzene	ND	5
2-Chlorotoluene	ND	5
4-Chlorotoluene	ND	5
1,3,5-Trimethylbenzene	ND	5
tert-Butylbenzene	ND	. 5
1,2,4-Trimethylbenzene	ND	_5
sec-Butylbenzene	ND	5
1,3-Dichlorobenzene	ND	5
p-Isopropyltoluene	ND	5
1,4-Dichlorobenzene	ND	5
1,2-Dichlorobenzene	ND	5
n-Butylbenzene	ND	5
1,2-Dibromo-3-chloropropane	ND	5
1,2,4-Trichlorobenzene	ND	10
Hexachlorobutadiene	ND	10
Naphthalene	ND	10
1,2,3-Trichlorobenzene	ND	10

Analytical Report EPA 8260

Client: URS Corporation

Project Manager: Mauricio Escobar

<u>Project Name</u> Associated Plating Sample ID: BG2-5

Date Sampled: 11/1/01 Date Received: 11/2/01 Date Analyzed: 11/2/01 Laboratory ID: T3075-05

Surrogate Compounds	Conc.(µg/Kg)	%Rec.
Dibromofluoromethane	36.88	92
Toluene-d8	40.86	102
4-Bromofluorobenzene	37.04	93

Compound	Conc.	RL
Compound	(µg/Kg)	(µg/Kg)
Dichlorodifluoromethane	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND_	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	10
1,1-Dichloroethene	ND	10
Methylene chloride	ND	10
trans-1,2-Dichloroethene	ND	10
1,1-Dichloroethane	ND	10
2,2-Dichloropropane	ND	5
cis-1,2-Dichloroethene	ND	5
Bromochloromethane	ND	5
Chloroform	ND	5
1,1,1-Trichloroethane	₩D	5
Carbon Tetrachloride	ND	5
1-1-Dichloropropene	ND	5
Benzene	ND	5
1,2-Dichloroethane	ND	5
Trichloroethene	ND	5
1,2-Dichloropropane	ND	5
Dibromomethane	ND	5
Bromodichloromethane	ND	5
cis-1,3-Dichloropropene	ND	5
Toluene	ND	5
trans-1,3-Dichloropropene	ND	5
1,1,2-Trichloroethane	ND	5
Tetrachloroethene	ND	5
1,3-Dichloropropane	ND	5
Dibromochloromethane	ND	5

Compound	Conc.	RL
Compound	(µg/Kg)	(µg/Kg)
1,2-Dibromoethane	ND	5
Chlorobenzene	ND	5
1,1,1,2-Tetrachloroethane	ND	5
Ethyl benzene	ND	5
m&p-Xylene	ND	10
o-Xylene	ND	5
Styrene	ND	5
Bromoform	ND	5
Isopropylbenzene	ND	5
Bromobenzene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
1,2,3-Trichloropropane	ND	5
n-Propylbenzene	ND	5
2-Chlorotoluene	ND	5
4-Chlorotoluene	ND	5
1,3,5-Trimethylbenzene	ND	5
tert-Butylbenzene	ND	5
1,2,4-Trimethylbenzene	ND	5
sec-Butylbenzene	ND	5
1,3-Dichlorobenzene	ND	5
p-Isopropyltoluene	ND	5
1,4-Dichlorobenzene	ND	5
1,2-Dichlorobenzene	ND	5
n-Butylbenzene	ND	5
1,2-Dibromo-3-chloropropane	ND	5
1,2,4-Trichlorobenzene	ND	10
Hexachlorobutadiene	ND	10
Naphthalene	ND	10
1,2,3-Trichlorobenzene	NĐ	10

Analytical Report EPA 8260

Client: URS Corporation

Project Manager: Mauricio Escobar

Project Name
Associated Plating

Sample ID: BG2-9
Date Sampled: 11/1/01
Date Received: 11/2/01
Date Analyzed: 11/2/01
Laboratory ID: T3075-06

Surrogate Compounds	Conc.(µg/Kg)	<u>%Rec.</u>
Dibromofluoromethane	38.00	95
Toluene-d8	41.10	103
4-Bromofluorobenzene	38.15	95

Compound	Conc.	RL
Compound	(µg/Kg)	(µg/Kg)
Dichlorodifluoromethane	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	_10
1,1-Dichloroethene	ND	_10
Methylene chloride	ND	_10
trans-1,2-Dichloroethene	ND	10
1,1-Dichloroethane	ND	10
2,2-Dichloropropane	ND	. 5
cis-1,2-Dichloroethene	ND	5
Bromochloromethane	ND	5
Chloroform	ND	5
1,1,1-Trichloroethane	ND	5
Carbon Tetrachloride	ND_	_ 5
1-1-Dichloropropene	ND	5
Benzene	ND	_ 5
1,2-Dichloroethane	ND	5
Trichloroethene	ND	5
1,2-Dichloropropane	ND	5
Dibromomethane	ND	5
Bromodichloromethane	ND	5
cis-1,3-Dichloropropene	ND	5
Toluene	ND	5
trans-1,3-Dichloropropene	ND	_ 5
1,1,2-Trichloroethane	ND	5
Tetrachloroethene	ND	5
1,3-Dichloropropane	ND	_5
Dibromochloromethane	ND	5

Compound	Conc.	RL
	(µg/Kg)	(µg/Kg)
1,2-Dibromoethane	ND	5
Chlorobenzene	ND	5
1,1,1,2-Tetrachloroethane	ND	5
Ethyl benzene	ND	5
m&p-Xylene	DN	10
o-Xylene	ND	5
Styrene	ND	5
Bromoform	ND	5
Isopropylbenzene	ND	5
Bromobenzene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
1,2,3-Trichloropropane	ND	5
π-Propylbenzene	ND	5
2-Chlorotoluene	ND	5
4-Chlorotoluene	ND	. 5
1,3,5-Trimethylbenzene	ND	5
tert-Butylbenzene	ND	5
1,2,4-Trimethylbenzene	ND	5
sec-Butylbenzene	6	5
1,3-Dichlorobenzene	ND	5
p-Isopropyltoluene	ND	5
1,4-Dichlorobenzene	ND	5
1,2-Dichlorobenzene	ND	5
n-Butylbenzene	ND	5
1,2-Dibromo-3-chloropropane	ND	. 5
1,2,4-Trichlorobenzene	ND	10
Hexachlorobutadiene	ND	_10
Naphthalene	ND	10
1,2,3-Trichlorobenzene	ND	_10

Analytical Report EPA 8260

Client: URS Corporation

Project Manager. Mauricio Escobar

Project Name Associated Plating Sample ID: BG1-0.5 Date Sampled: 11/1/01 Date Received: 11/2/01 Date Analyzed: 11/2/01

Laboratory ID: T3075-07

Surrogate Compounds	Conc.(µg/Kg)	%Rec.
Dibromofluoromethane	39.10	98
Toluene-d8	39.39	98
4-Bromofivorobertzerie	37.52	94

Compound	Conc.	RL
Compound	(µg/Kg)_	(µg/Kg)
Dichlorodifluoromethane	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	: ND	10
Trichlorofluoromethane	ND	10
1,1-Dichloroethene	ND	10
Methylene chloride	ND	10
trans-1,2-Dichloroethene	ND	10
1,1-Dichloroethane	ND	10
2,2-Dichloropropane	ND	5
cis-1,2-Dichloroethene	ND	5
Bromochloromethane	ND	5
Chloroform	ND	5
1,1,1-Trichloroethane	ND	5
Carbon Tetrachloride	ND	5
1-1-Dichloropropene	ND	5
Benzene	ND	5
1,2-Dichloroethane	ND	- 5
Trichloroethene	ND	5
1,2-Dichloropropane	ND	5
Dibromomethane	ND	5
Bromodichloromethane	ND	5
cis-1,3-Dichloropropene	ND	5
Toluene	ND	5
trans-1,3-Dichloropropene	ND	5
1,1,2-Trichloroethane	ND	5
Tetrachloroethene	ND	5
1,3-Dichloropropane	ND	5
Dibromochloromethane	ND	5

Compound	Conc.	RL
Compound 	_(µg/Kg)	(µg/Kg)
1,2-Dibromoethane	ND	5
Chlorobenzene	ND	5
1,1,1,2-Tetrachloroethane	ND	5
Ethyl benzene	ND	5
m&p-Xylene	ND	10
o-Xylene	ND	5
Styrene	ND	5
Bromoform	ND	5
Isopropylbenzene	ND	5
Bromobenzene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
1,2,3-Trichloropropane	ND	5
n-Propylbenzene	ND	5
2-Chlorotaluene	ND	5
4-Chlorotoluene	ND	5
1,3,5-Trimethylberizene	ND	5
tert-Butylbenzene	ND	5
1,2,4-Trimethylbenzene	ND	5
sec-Butylbenzene	ND	5
1,3-Dichlorobenzene	ND	5
p-Isopropyltoluene	ND	5
1,4-Dichlorobenzene	ND	5
1,2-Dichlorobenzene	ND	5
n-Butylbenzene	ND	5
1,2-Dibromo-3-chloropropane	ND	5
1,2,4-Trichlorobenzene	ND	10
Hexachlorobutadiene	ND	10
Naphthalene	ND	10
1,2,3-Trichlorobenzene	ND	10
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Analytical Report EPA 8260

Client: URS Corporation

Project Manager: Mauricio Escobar

Project Name
Associated Plating

Sample ID: BG1-5 Date Sampled: 11/1/01 Date Received: 11/2/01

Date Analyzed: 11/2/01 Laboratory ID: T3075-08

Surrogate Compounds	Conc.(µg/Kg)	%Rec
Dibromofluoromethane	36.37	91
Toluene-d8	40.45	101
4-Bromofluorobenzene	36.27	91

Compound	Conc.	RL
Compound	(µg/Kg)	(µg/Kg)
Dichlorodifluoromethane	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	10
1,1-Dichloroethene	ND	10
Methylene chloride	ND	10
trans-1,2-Dichloroethene	ND	10
1,1-Dichloroethane	ND	10
2,2-Dichloropropane	ND	5
cis-1,2-Dichloroethene	ND	. 5
Bromochloromethane	ND	5
Chloroform	ND	5
1,1,1-Trichloroethane	ND	5
Carbon Tetrachloride	ND	5
1-1-Dichloropropene	ND	5
Велгеле	ND	5
1,2-Dichloroethane	ND	5
Trichloroethene	ND	5
1,2-Dichloropropane	ND	5
Dibromomethane	ND	5
Bromodichloromethane	ND	5
cis-1,3-Dichloropropene	ND	5
Toluene	ND	5
trans-1,3-Dichloropropene	ND	5
1,1,2-Trichloroethane	ND	5
Tetrachloroethene	ND	5
1,3-Dichloropropane	ND	5
Dibromochloromethane	ND	_ 5

Campanad	Conc.	RL
Compound	(μg/Kg)	(µg/Kg)
1,2-Dibromoethane	ND	5
Chlorobenzene	ND	5
1,1,1,2-Tetrachloroethane	ND	5
Ethyl benzene	ND	5
m&p-Xylene	ND	10
o-Xylene	ND	5
Styrene	ND	5
Bromoform	ND	5
Isopropylbenzene	ND	5
Bromobenzene	ND	5
1,1,2,2-Tetrachloroethane	ND	. 5
1,2,3-Trichloropropane	ND	5
n-Propylbenzene	ND	5
2-Chlorotoluene	ND	5
4-Chlorotoluene	ND	5
1,3,5-Trimethylbenzene	ND	5
tert-Butylbenzene	ND	5
1,2,4-Trimethylbenzene	ND	5
sec-Butylbenzene	ND	5
1,3-Dichlorobenzene	ND	5
p-Isopropyltoluene	ND	5
1,4-Dichlorobenzene	ND	5
1,2-Dichlorobenzene	ND	5
n-Butylbenzene	ND	5
1,2-Dibromo-3-chloropropane	ND	5
1,2,4-Trichlorobenzene	ND	10
Hexachlorobutadiene	ND	10
Naphthalene	ND	10
1,2,3-Trichlorobenzene	ND	10
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Analytical Report EPA 8260

Client: URS Corporation

Project Manager: Mauricio Escobar

Project Name
Associated Plating

Sample ID: B9-0.5 Date Sampled: 11/1/01 Date Received: 11/2/01 Date Analyzed: 11/2/01

Laboratory ID: T3075-09 Matrix: Soil

Surrogate Compounds	Conc.(µg/Kg)	%Rec.
Dibromofluoromethane	38.01	95
Toluene-d8	41.57	104
4-Bromofluorobenzene	42.76	107

Company	Conc.	RL
Compound	(µg/Kg)	(μg/Kg)
Dichlorodifluoromethane	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	10
1,1-Dichloroethene	ND	10
Methylene chloride	ND	10
trans-1,2-Dichloroethene	400	10
1,1-Dichloroethane	ND .	10
2,2-Dichloropropane	ND	5
cis-1,2-Dichloroethene	880	5
Bromochloromethane	ND	5
Chloroform	ND	5
1,1,1-Trichloroethane	ND	5
Carbon Tetrachloride	ND	5
1-1-Dichloropropene	ND	5
Benzene	ND	5
1,2-Dichloroethane	ND	5
Trichloroethene	2,200	5
1,2-Dichloropropane	ND	5
Dibromomethane	ND	5
Bromodichloromethane	ND	5
cis-1,3-Dichloropropene	ND	5
Toluene	ND	5
trans-1,3-Dichloropropene	ND	5
1,1,2-Trichloroethane	ND	5
Tetrachloroethene	1,100	5
1,3-Dichloropropane	ND	5
Dibromochloromethane	ND	5

Compound	Conc.	RL
Compound	(µg/Kg)	(µg/Kg)
1,2-Dibromoethane	ND	5
Chlorobenzene	ND	5
1,1,1,2-Tetrachloroethane	ND	5
Ethyl benzene	ND	5
m&p-Xylene	, ND	10
o-Xylene	ND	5
Styrene	ND	5
Bromoform	ND	5
Isopropylbenzene	20	5
Bromobenzene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
1,2,3-Trichloropropane	ND	5
n-Propylbenzene	31	5
2-Chlorotoluene	ND	5
4-Chlorotoluene	ND	5
1,3,5-Trimethylbenzene	32	5
tert-Butylbenzene	ND	5
1,2,4-Trimethylbenzene	100	5
sec-Butylbenzene	31	5
1,3-Dichlorobenzene	ND	_ 5
p-Isopropyltoluene	20	5
1,4-Dichlorobenzene	ND	5
1,2-Dichlorobenzene	ND	5
n-Butylbenzene	24	5
1,2-Dibromo-3-chloropropane	ND	5
1,2,4-Trichlorobenzene	ND	10
Hexachlorobutadiene	ND	10
Naphthalene	ND	10
1,2,3-Trichlorobenzene	ND ND	10

Analytical Report EPA 8260

Client: URS Corporation

Project Manager: Mauricio Escobar

Project Name
Associated Plating

Sample ID: B9-5 Date Sampled: 11/1/01

Date Received: 11/2/01 Date Analyzed: 11/2/01 Laboratory ID: T3075-10

Surrogate Compounds	Conc.(µg/Kg)	%Rec
Dibromofluoromethane	36.58	91
Toluene-d8	40.13	100
4-Bromofluorobenzene	38.59	96

Compound	Conc.	RL
	(µg/Kg)	(μg/Kg)
Dichlorodifluoromethane	ND_	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND:	_10
Chloroethane	ND ND	10
Trichlorofluoromethane	ND	10
1,1-Dichloroethene	ND	10
Methylene chloride	ND	10
trans-1,2-Dichloroethene	110	10
1,1-Dichloroethane	ND	10
2,2-Dichloropropane	ND	5
cis-1,2-Dichloroethene	450	5
Bromochloromethane	ND ND	5
Chloraform	ND	5
1,1,1-Trichloroethane	ND	5
Carbon Tetrachloride	ND	5
1-1-Dichloropropene	ND	5
Benzene	ND	5
1,2-Dichloroethane	ND	5
Trichloroethene	ND	_5
1,2-Dichloropropane	ND	5
Dibromomethane	ND	5
Bromodichloromethane	ND	5
cis-1,3-Dichloropropene	ND	5
Toluene	ND	5
trans-1,3-Dichloropropene	ND	5
1,1,2-Trichloroethane	ND	5
Tetrachloroethene	8	5
1,3-Dichloropropane	ND	5
Dibromochloromethane	ND	5

Compound	Conc.	RL
Compound	(µg/Kg)	(µg/Kg)
1,2-Dibromoethane	ND	5
Chlorobenzene	ND	5
1,1,1,2-Tetrachloroethane	ND	5
Ethyl benzene	79	_ 5
m&p-Xylene	ND	10
o-Xylene	ND	5
Styrene	ND	5
Bromoform	ND	5
Isopropylbenzene	74	5
Bromobenzene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
1,2,3-Trichloropropane	ND	5
n-Propylbenzene	120	5
2-Chlorotoluene	ND	5
4-Chlorotoluene	ND	5
1,3,5-Trimethylbenzene	ND	_ 5
tert-Butylbenzene	ND	- 5
1,2,4-Trimethylbenzene	ND	5
sec-Butylbenzene	31	5
1,3-Dichlorobenzene	ND	5
p-Isopropyltoluene	ND	5
1,4-Dichlorobenzene	ND	5
1,2-Dichlorobenzene	ND _	5
n-Butylbenzene	ND	5
1,2-Dibromo-3-chloropropane	ND	5
1,2,4-Trichlorobenzene	ND	10
Hexachlorobutadiene	ND	10
Naphthalene	360	10
1,2,3-Trichlorobenzene	ND	10

Analytical Report EPA 8260

Client: URS Corporation

Project Manager: Mauricio Escobar

Project Name Associated Plating Sample ID: B1-0.5 Date Sampled: 11/1/01 Date Received: 11/2/01

Date Analyzed: 11/2/01 Laboratory ID: T3075-11

Surrogate Compounds	Conc.(µg/Kg)	%Rec.
Dibromofluoromethane	40.65	102
Toluene-d8	40.16	100
4-Bromofluorobenzene	40.37	101

Compound	Conc.	RL
	(μg/Kg)	(µg/Kg)
Dichlorodifluoromethane	ND	10
Chloromethane	ND	10
Vinyl Chloride	18	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	10
1,1-Dichloroethene	ND	10
Methylene chloride	ND	10
trans-1,2-Dichloroethene	220	10
1,1-Dichloroethane	ND	10
2,2-Dichloropropane	ND	5
cis-1,2-Dichloroethene	980	5
Bromochloromethane	ND	5
Chloroform	ND	5
1,1,1-Trichloroethane	ND	5
Carbon Tetrachloride	ND	5
1-1-Dichloropropene	ND	5
Benzene	ND	5
1,2-Dichloroethane	ND	5
Trichloroethene	1,500	5
1,2-Dichloropropane	ND	5
Dibromomethane	ND	5
Bromodichloromethane	ND	5
cis-1,3-Dichloropropene	ND	5
Toluene	ND	5
trans-1,3-Dichloropropene	ND	. 5
1,1,2-Trichloroethane	ND	5
Tetrachloroethene	35,000	5
1,3-Dichloropropane	ND	5
Dibromochloromethane	ND	5

Campanad	Conc.	RL
Compound	(µg/Kg)	(µg/Kg)
1,2-Dibromoethane	ND	5
Chlorobenzene	ND	5
1,1,1,2-Tetrachloroethane	ND	5
Ethyl benzene	ND .	5
m&p-Xylene	ND	10
o-Xylene	ND	5
Styrene	ND	5
Bromoform	ND	5
Isopropylbenzene	17	5
Bromobenzene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
1,2,3-Trichloropropane	ND	5
n-Propylbenzene	14	5
2-Chlorotoluene	ND	5
4-Chlorotoluene	ND	5
1,3,5-Trimethylbenzene	ND	5
tert-Butylbenzene	6	5
1,2,4-Trimethylbenzene	ND	5
sec-Butylbenzene	34	5
1,3-Dichlorobenzene	ND	5
p-Isopropyltoluene	ND	5
1,4-Dichlorobenzene	ND	5
1,2-Dichlorobenzene	ND	5
n-Butylbenzene	9	.5
1,2-Dibromo-3-chloropropane	ND	5
1,2,4-Trichlorobenzene	ND	10
Hexachlorobutadiene	ND	10
Naphthalene	9	10
1,2,3-Trichlorobenzene	ND	10

Analytical Report EPA 8260

Client: URS Corporation

Project Manager: Mauricio Escobar

Project Name
Associated Plating

Sample ID: B1-5 Date Sampled: 11/1/01 Date Received: 11/2/01

Date Analyzed: 11/2/01 Laboratory ID: T3075-12

Surrogate Compounds	Conc.(µg/Ka)	%Rec.
Dibromofluoromethane	35.18	88
Toluene-d8	41.56	104
4-Bromofluorobenzene	37.18	93

Compound	Conc.	RL
Compound	(μg/Kg)	(µg/Kg)
Dichlorodifluoromethane	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	10
1,1-Dichloroethene	ND	10
Methylene chloride	ND	10
trans-1,2-Dichloroethene	ND	10
1,1-Dichloroethane	ND	10
2,2-Dichloropropane	ND	5
cis-1,2-Dichloroethene	ND	5
Bromochloromethane	DN	5
Chloroform	ND	5
1,1,1-Trichloroethane	ND	5
Carbon Tetrachloride	ND	5
1-1-Dichloropropene	ND	5
Benzene	ND	5
1,2-Dichloroethane	ND	5
Trichloroethene	ND	5
1,2-Dichloropropane	ND	5
Dibromomethane	ND	5
Bromodichloromethane	ND	5
cis-1,3-Dichloropropene	ND	5
Toluene	ND	5
trans-1,3-Dichloropropene	ND	5
1,1,2-Trichloroethane	ND	5
Tetrachloroethene	ND	5
1,3-Dichloropropane	ND	5
Dibromochloromethane	ND	5

Compound	Сопс.	RL
	(µg/Kg)	(µg/Kg)
1,2-Dibromoethane	ND	5
Chlorobenzene	ND	5
1,1,1,2-Tetrachloroethane	ND	5
Ethyl benzene	5	5
m&p-Xylene	ND	10
o-Xylene	ND ND	5
Styrene	ND	5
Bromoform	ND .	5
Isopropylbenzene	ND	5
Bromobenzene	ND	_ 5
1,1,2,2-Tetrachloroethane	ND	5
1,2,3-Trichloropropane	ND	5
n-Propylbenzene	6	5
2-Chlorotoluene	ND	5
4-Chlorotoluene	ND	5
1,3,5-Trimethylbenzene	ND	5
tert-Butylbenzene	ND	5
1,2,4-Trimethylbenzene	ND	5
sec-Butylbenzene	ND	5
1,3-Dichlorobenzene	ND_	5
p-Isopropyltoluene	ND	5
1,4-Dichlorobenzene	ND	. 5
1,2-Dichlorobenzene	ND	5
n-Butylbenzene	ND	5
1,2-Dibromo-3-chloropropane	ND	5
1,2,4-Trichlorobenzene	ND	10
Hexachlorobutadiene	ND	10
Naphthalene	30	10
1,2,3-Trichlorobenzene	ND	10

Analytical Report EPA 8260

Client: URS Corporation

Project Manager: Mauricio Escobar

Project Name
Associated Plating

Sample ID: B2-0.5

Date Sampled: 11/1/01 Date Received: 11/2/01 Date Analyzed: 11/2/01 Laboratory ID: T3075-13

Surrogate Compounds	Conc.(ug/Kg)	%Rec.
Dibromofluoromethane	34.92	87
Toluene-d8	41.42	104
4-Bromofluorobenzene	42.61	107

Compound	Conc.	RL
Compound	(µg/Kg)	(µg/Kg)
Dichlorodifluoromethane	ND	10
Chloromethane	ND	10
Vinyl Chloride	110	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	10
1,1-Dichloroethene	16	10
Methylene chloride	ND	10
trans-1,2-Dichloroethene	240	10
1,1-Dichloroethane	ND	10
2,2-Dichloropropane	ND	5
cis-1,2-Dichloroethene	820	5
Bromochloromethane	ND	5
Chloroform	ND	5
1,1,1-Trichloroethane	ND	5
Carbon Tetrachloride	ND	5
1-1-Dichloropropene	ND	5
Benzene	ND	5
1,2-Dichloroethane	ND	5
Trichloroethene	2,800	5
1,2-Dichloropropane	ND	5
Dibromomethane	ND	5
Bromodichloromethane	ND	5
cis-1,3-Dichloropropene	ND	5
Тошепе	45	5
trans-1,3-Dichloropropene	ND	5
1,1,2-Trichloroethane	ND	5
Tetrachloroethene	4,100	5
1,3-Dichloropropane	ND	5
Dibromochloromethane	ND	5

Compound	Conc.	RL
Compound	(µg/Kg)	(µg/Kg)
1,2-Dibromoethane	ND	5
Chlorobenzene	ND	5
1,1,1,2-Tetrachloroethane	ND	5
Ethyl benzene	ND	5
m&p-Xylene	ND	10
o-Xylene	ND	5
Styrene	ND	5
Bromoform	ND	5
Isopropylbenzene	14	5
Bromobenzene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
1,2,3-Trichloropropane	ND	5
n-Propylbenzene	16	5
2-Chlorotoluene	ND	5
4-Chlorotoluene	ND	5
1,3,5-Trimethylbenzene	ND	5
tert-Butylbenzene	ND	5
1,2,4-Trimethylbenzene	ND	5
sec-Butylbenzene	29	5
1,3-Dichlorobenzene	ND	5
p-Isopropyltoluene	ND	5
1,4-Dichlorobenzene	ND	5
1,2-Dichlorobenzene	ND	5
n-Butylbenzene	ND	5
1,2-Dibromo-3-chloropropane	ND	5
1,2,4-Trichlorobenzene	ND	10
Hexachlorobutadiene	ND	10
Naphthalene	ND	10
1,2,3-Trichlorobenzene	ND	10

Analytical Report EPA 8260

Client: URS Corporation

Project Manager: Mauricio Escobar

Project Name
Associated Plating

Sample ID: B2-5 Date Sampled: 11/1/01 Date Received: 11/2/01

Date Analyzed: 11/2/01 Laboratory ID: T3075-14

Surrogate Compounds	Conc.(µg/Kg)	%Rec.
Dibromofluoromethane	35.87	90
Toluene-d8	40.60	102
4-Bromofluorobenzene	43.07	108

Compound	Conc.	RL
	(µg/Kg)	(µg/Kg)
Dichlorodifluoromethane	ND	10
Chloromethane	ND	10
Vinyl Chloride	2,000	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	10
1,1-Dichloroethene	ND	10
Methylene chloride	ND	10
trans-1,2-Dichloroethene	320	10
1,1-Dichloroethane	30	10
2,2-Dichloropropane	ND	5
cis-1,2-Dichloroethene	210	5
Bromochloromethane	ND	5
Chloroform	ND	5
1,1,1-Trichloroethane	ND	5
Carbon Tetrachloride	ND	5
1-1-Dichloropropene	DN	5
Benzene	ND	5
1,2-Dichloroethane	ND _	5
Trichloroethene	12	5
1,2-Dichloropropane	ND	5
Dibromomethane	ND	5
Bromodichloromethane	ND	5
cis-1,3-Dichloropropene	ND	5
Toluene	ND	5
trans-1,3-Dichloropropene	ND	5
1,1,2-Trichloroethane	ND	5
Tetrachloroethene	85	5
1,3-Dichloropropane	ND	5
Dibromochloromethane	ND	5

Company	Conc.	RL
Compound	(µg/Kg)	(µg/Kg)
1,2-Dibromoethane	ND	5
Chlorobenzene	ND	5
1,1,1,2-Tetrachloroethane	ND	5
Ethyl benzene	290	5
m&p-Xylene	ND	10
o-Xylene	ND	5
Styrene	ND	5
Bromoform	ND	5
Isopropylbenzene	96	5
Bromobenzene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
1,2,3-Trichloropropane	ND	5
n-Propylbenzene	150	5
2-Chlorotoluene	ИD	5
4-Chlorataluene	ND	5
1,3,5-Trimethylbenzene	ND	5
tert-Butylbenzene	ND	5
1,2,4-Trimethylbenzene	ND	5
sec-Butylbenzene	40	5
1,3-Dichlorobenzene	ND	5
p-Isopropyltoluene	ND	5
1,4-Dichlorobenzene	ND	5
1,2-Dichlorobenzene	ND	5
n-Butylbenzene	ND	5
1,2-Dibromo-3-chloropropane	ND	5
1,2,4-Trichlorobenzene	ND	10
Hexachlorobutadiene	, ND	10
Naphthalene	400	10
1,2,3-Trichlorobenzene	ND	10

Analytical Report EPA 8260

Client: URS Corporation

Project Manager: Mauricio Escobar

Project Name
Associated Plating

Sample ID: B8-0.5 Date Sampled: 11/1/01

Date Received: 11/2/01 Date Analyzed: 11/2/01 Laboratory ID: T3075-15

Surrogate Compounds	Conc.(µg/Kg)	%Rec.
Dibromofluoromethane	37.30	93
Toluene-d8	40.02	100
4-Bromofluorobenzene	41.24	103

S	Conc.	RL
Compound	(µg/Kg)	(µg/Kg)
Dichlorodifluoromethane	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	10
1,1-Dichloroethene	ND	10
Methylene chloride	ND	10
trans-1,2-Dichloroethene	ND	10
1,1-Dichloroethane	ND	10
2,2-Dichloropropane	ND	5
cis-1,2-Dichlorgethene	ND	5
Bromochloromethane	ND	5
Chloroform	ND	5
1,1,1-Trichloroethane	ND	5
Carbon Tetrachloride	ND	5
1-1-Dichloropropene	ND	5
Benzene	ND	, 5
1,2-Dichloroethane	ND	5
Trichloroethene	7	5
1,2-Dichloropropane	ND	5
Dibromomethane	ND	5
Bromodichloromethane	ND	5
cis-1,3-Dichloropropene	ND	5
Toluene	ND	5
trans-1,3-Dichloropropene	ND	5
1,1,2-Trichloroethane	ND	5
Tetrachloroethene	56	5
1,3-Dichloropropane	ND	5
Dibromochloromethane	ND	5

Campaning	Conc.	RL
Compound	(µg/Kg)	(µg/Kg)
1,2-Dibromoethane	ND	5
Chlorobenzene	ND _	5
1,1,1,2-Tetrachloroethane	ND	5
Ethyl benzene	ND	5
m&p-Xylene	ND	10
o-Xylene	ND	5
Styrene	ND	5
Bromoform	ND	5
Isopropylbenzene	10	5
Bromobenzene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
1,2,3-Trichloropropane	ND	5
n-Propylbenzene	5	5 _
2-Chlorotoluene	ND	5
4-Chloratoluene	ND	5
1,3,5-Trimethylbenzene	ND	5
tert-Butylbenzene	ND	5
1,2,4-Trimethylbenzene	ND	5
sec-Butylbenzene	18	5
1,3-Dichlorobenzene	ND	5
p-Isopropyltoluene	ND	5
1,4-Dichlorobenzene	ND	5
1,2-Dichlorobenzene	ND	5
n-Butylbenzene	ND	5
1,2-Dibromo-3-chloropropane	ND	5
1,2,4-Trichlorobenzene	ND	10
Hexachlorobutadiene	ND	10
Naphthalene	10	10
1,2,3-Trichlorobenzene	ND	10

Analytical Report EPA 8260

Client: URS Corporation

Project Manager: Mauricio Escobar

Project Name
Associated Plating

Sample ID: B8-5

Date Sampled: 11/1/01 Date Received: 11/2/01 Date Analyzed: 11/2/01 Laboratory ID: T3075-16

Surrogate Compounds	Conc.(µg/Kg)	%Rec
Dibromofluoromethane	32.83	82
Toluene-d8	40.21	101
4-Bromofluorobenzene	39.50	99

Campaind	Conc.	RL
Compound	(µg/Kg)	(µg/Kg)
Dichlorodifluoromethane	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	10
1,1-Dichloroethene	ND	10
Methylene chloride	ND	10
trans-1,2-Dichloroethene	ND	10
1,1-Dichloroethane	ND	10
2,2-Dichloropropane	ND	5
cis-1,2-Dichloroethene	6	5
Bromochloromethane	ND	5
Chloroform	ND	5
1,1,1-Trichloroethane	ND	_ 5
Carbon Tetrachloride	ND	5
1-1-Dichloropropene	ND	5
Велгепе	ND	5
1,2-Dichloroethane	ND	5
Trichloroethene	7	5
1,2-Dichloropropane	ND	5
Dibromomethane	ND	5
Bromodichloromethane	ND	5
cis-1,3-Dichloropropene	ND	5
Toluene	ND	5
trans-1,3-Dichloropropene	ND	5
1,1,2-Trichloroethane	ND	_ 5
Tetrachloroethene	8	5
1,3-Dichloropropane	ND ND	5_
Dibromochloromethane	ND	5

C	Conc.	RL
Compound	(µg/Kg)	(µg/Kg)
1,2-Dibromoethane	ND	5
Chlorobenzene	ND	5
1,1,1,2-Tetrachloroethane	ND	5
Ethyl benzene	460	5
m&p-Xylene	ND	10
o-Xylene	ND	5
Styrene	ND	5
Bromoform	ДN	5
Isopropylbenzene	170	5
Bromobenzene	ND	5
1,1,2,2-Tetrachloroethane	ДN	5
1,2,3-Trichloropropane	ND	5
л-Propylbenzene	300	5
2-Chlorotoluene	ND	5
4-Chlorotoluene	ND	5
1,3,5-Trimethylbenzene	ND	5
tert-Butylbenzene	ND	5
1,2,4-Trimethylbenzene	ND	_5
sec-Butylbenzene	100	5
1,3-Dichlorobenzene	ND	5
p-Isopropyltoluene	ND_	5
1,4-Dichlorobenzene	ND_	_5
1,2-Dichlorobenzene	ND_	_ 5
n-Butylbenzene	40	_5
1,2-Dibromo-3-chloropropane	ND_	_ 5
1,2,4-Trichlorobenzene	ND	10
Hexachlorobutadiene	DN	10
Naphthalene	1,200	10
1,2,3-Trichlorobenzene	ND	10

Analytical Report EPA 8260

Client: URS Corporation

Project Manager: Mauricio Escobar

Project Name
Associated Plating

Sample ID: B7-3

Date Sampled: 11/1/01 Date Received: 11/2/01 Date Analyzed: 11/2/01 Laboratory ID: T3075-17

Surrogate Compounds	Conc.(µg/Kg)	%Rec.
Dibromofluoromethane	36.37	91
Toluene-d8	40.45	101
4-Bromofluorobenzene	37.17	93

Company	Conc.	RL
Compound	(µg/Kg)	(µg/Kg)
Dichlorodifluoromethane	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	10
1,1-Dichloroethene	ND ND	10
Methylene chloride	ND	10
trans-1,2-Dichloroethene	ND ND	10
1,1-Dichloroethane	ND	10
2,2-Dichloropropane	ND	5
cis-1,2-Dichloroethene	ND	5
Bromochloromethane	ND	5
Chloroform	ND	5
1,1,1-Trichloroethane	ND	5
Carbon Tetrachloride	ND	5
1-1-Dichloropropene	ND _	5
Benzene	ND	5
1,2-Dichloroethane	ND	5
Trichloroethene	7	5
1,2-Dichloropropane	ND	5
Dibromomethane	ND	5
Bromodichloromethane	ND	5
cis-1,3-Dichloropropene	ND	5
Toluene	ND	5
trans-1,3-Dichloropropene	ND	5
1,1,2-Trichloroethane	ND	5
Tetrachloroethene	16	5
1,3-Dichloropropane	ND	5
Dibromochloromethane	ND	5

Compound	Conc.	RL
Compound	(µg/Kg)	(µg/Kg)
1,2-Dibromoethane	ND	5
Chlorobenzene	ND	5
1,1,1,2-Tetrachloroethane	ND	5
Ethyl benzene	ND	5
m&p-Xylene	ND	10
a-Xylene	ND	5
Styrene	ND	5
Bromoform	ND	5
Isopropylbenzene	ND	5
Bromobenzene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
1,2,3-Trichloropropane	ND	5
n-Propylbenzene	ND	5
2-Chlorotoluene	ND	5
4-Chlorotoluene	ND	5
1,3,5-Trimethylbenzene	ND	5
tert-Butylbenzene	ND	5
1,2,4-Trimethylbenzene	ND	5
sec-Butylbenzene	ND	5
1,3-Dichlorobenzene	ND	5
p-Isopropyltoluene	ND ND	5
1,4-Dichlorobenzene	ND	5
1,2-Dichlorobenzene	ND	5
n-Butylbenzene	ND	5
1,2-Dibromo-3-chloropropane	ND	5
1,2,4-Trichlorobenzene	ND	10
Hexachlorobutadiene	ND	10
Naphthalene	71	10
1,2,3-Trichlorobenzene	ND	10

Analytical Report EPA 8260

Client: URS Corporation

Project Manager: Mauricio Escobar

Project Name
Associated Plating

Sample ID: B7-5

Date Sampled: 11/1/01 Date Received: 11/2/01 Date Analyzed: 11/2/01 Laboratory ID: T3075-18

Surrogate Compounds	Conc.(µg/Kg)	%Rec.
Dibromofluoromethane	34.09	85
Toluene-d8	41.77	104
4-Bromofluorobenzene	40.13	100

Compound	Conc.	RL
Compound	(µg/Kg)	(µg/Kg)
Dichlorodifluoromethane	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	_10
1,1-Dichloroethene	ND	10
Methylene chloride	ND	10
trans-1,2-Dichloroethene	ND	10
1,1-Dichloroethane	ND	10
2,2-Dichloropropane	ND	5
cis-1,2-Dichloroethene	ND	5
Bromochloromethane	ND	5
Chloroform	ND	5
1,1,1-Trichloroethane	ND	5
Carbon Tetrachloride	ND	5
1-1-Dichloropropene	ND	5
Benzene	ND	5
1,2-Dichloroethane	ND	5
Trichloroethene	ND	5
1,2-Dichloropropane	ND	5
Dibromomethane	ND	5
Bromodichloromethane	ND	5
cis-1,3-Dichloropropene	ND	5
Toluene	ND	5
trans-1,3-Dichloropropene	ND	- 5
1,1,2-Trichloroethane	ND	5
Tetrachloroethene	9	5
1,3-Dichloropropane	ND	5
Dibromochloromethane	ND	5

Compound	Conc.	RL
Compound	(µg/Kg)	(µg/Kg)
1,2-Dibromoethane	ND	5_
Chlorobenzene	ND	5
1,1,1,2-Tetrachloroethane	ND	5
Ethyl benzene	7	5
m&p-Xylene	ND	10
o-Xylene	QN	5
Styrene	ND	5
Bromoform	ND	5
Isopropylbenzene	17	5
Bromobenzene	ND	. 5
1,1,2,2-Tetrachloroethane	ND	5
1,2,3-Trichloropropane	ND	5
n-Propylbenzene	13	5_
2-Chlorotoluene	ND	5
4-Chlorotoluene	ND	5
1,3,5-Trimethylbenzene	ND	5
tert-Butylbenzene	ND	5
1,2,4-Trimethylbenzene	ND_	5
sec-Butylbenzene	23	5
1,3-Dichlorobenzene	ND	5
p-Isopropyltoluene	ND	5
1,4-Dichlorobenzene	ND	5
1,2-Dichlorobenzene	ND	5
n-Butylbenzene	ND	5
1,2-Dibromo-3-chloropropane	ND	5
1,2,4-Trichlorobenzene	ND	10
Hexachlorobutadiene	ND	10
Naphthalene	25	10
1,2,3-Trichlorobenzene	ND	10

Analytical Report EPA 8260

Client: URS Corporation

Project Manager: Mauricio Escobar

Project Name
Associated Plating

Sample ID: B6-0.5

Date Sampled: 11/1/01 Date Received: 11/2/01 Date Analyzed: 11/2/01 Laboratory ID: T3075-19

Surrogate Compounds	Conc.(µg/Kg)	%Rec.
Dibromofluoromethane	38.39	96
Toluene-d8	38.24	96
4-Bromofluorobenzene	38.61	97

Company	Conc.	RL
Compound	(µg/Kg)	(µg/Kg)
Dichlorodifiuoromethane	ND	10
Chloromethane	ND	10
Vinyl Chloride	20	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	10
1,1-Dichloroethene	50	10
Methylene chloride	ND	10
trans-1,2-Dichloroethene	1,100	10
1,1-Dichloroethane	120	10
2,2-Dichloropropane	ND	5
cis-1,2-Dichloroethene	4,200	5
Bromochloromethane	ND	5
Chloraform	ND	5
1,1,1-Trichloroethane	ND	5
Carbon Tetrachloride	ND	5
1-1-Dichloropropene	ND	5
Benzene	5	5
1,2-Dichloroethane	ND _	5
Trichloroethene	20	5
1,2-Dichloropropane	ND	5
Dibromomethane	ND	5
Bromodichloromethane	ND	5
cis-1,3-Dichloropropene	ND	5
Toluene	ND	5
trans-1,3-Dichloropropene	ND	5
1,1,2-Trichloroethane	ND	5
Tetrachloroethene	10	5
1,3-Dichloropropane	ND	5
Dibromochloromethane	ND	5

C	Conc.	RL
Compound	(µg/Kg)	(µg/Kg)
1,2-Dibromoethane	ND	5
Chlorobenzene	ND	5
1,1,1,2-Tetrachloroethane	ND	5
Ethyl benzene	ND	5
m&p-Xylene	ND	10
o-Xylene	ND	5
Styrene	ND	5
Bromoform	ND	5
Isopropylbenzene	130	5
Bromobenzene	ND	5
1,1,2,2-Tetrachloroethane	ND	5 _
1,2,3-Trichloropropane	ND	5
n-Propylbenzene	39	5
2-Chloratoluene	ND	5
4-Chlorotoluene	ND	5
1,3,5-Trimethylbenzene	ND	5
tert-Butylbenzene	ND	5
1,2,4-Trimethylbenzene	ND	5
sec-Butylbenzene	ND	5
1,3-Dichlorobenzene	ND	5
p-Isopropyltoluene	140	5
1,4-Dichlorobenzene	ND	5
1,2-Dichlorobenzene	ND	5
n-Butylbenzene	43	5
1,2-Dibromo-3-chloropropane	ND	5
1,2,4-Trichlorobenzeпe	ND	10
Hexachlorobutadiene	ND	10
Naphthalene	58	10
1,2,3-Trichlorobenzene	ND .	10

Analytical Report EPA 8260

Client: URS Corporation

Project Manager: Mauricio Escobar

Project Name
Associated Plating

Sample ID: B6-5

Date Sampled: 11/1/01 Date Received: 11/2/01 Date Analyzed: 11/2/01 Laboratory ID: T3075-20

Surrogate Compounds	Conc.(ug/Kg)	%Rec.
Dibromofluoromethane	32.66	82
Toluene-d8	40.10	100
4-Bromofluorobenzene	40.90	102

Compound	Conc.	RL
Compound	(µg/Kg)	(µg/Kg)
Dichlorodifluoromethane	ND	10
Chloromethane	ND	10
Vinyl Chloride	20	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	10
1,1-Dichloroethene	90	10
Methylene chloride	ND	10
trans-1,2-Dichloroethene	880	10
1,1-Dichloroethane	160	10
2,2-Dichloropropane	ND	5
cis-1,2-Dichloroethene	4,100	5
Bromochloromethane	ND	5
Chloroform	ND	5
1,1,1-Trichloroethane	ND	5
Carbon Tetrachloride	ND	- 5
1-1-Dichloropropene	ND	5
Benzene	ND	5
1,2-Dichloroethane	ND	5
Trichloroethene	4,600	5
1,2-Dichloropropane	ND	5
Dibromomethane	ND	5
Bromodichloromethane	ND	5
cis-1,3-Dichloropropene	ND	5
Toluene	23	5
trans-1,3-Dichloropropene	ND	5
1,1,2-Trichloroethane	ND	5
Tetrachloroethene	2,600	5
1,3-Dichloropropane	ND	5
Dibromochloromethane	ND	5

Compound	Conc.	RL
Compound	_(µg/Kg)	(µg/Kg)
1,2-Dibromoethane	ND	5
Chlorobenzene	ND	5
1,1,1,2-Tetrachloroethane	ND	5
Ethyl benzene	120	5
m&p-Xylene	15	10
o-Xylene	7	5
Styrene	ND	5
Bromoform	ND	5
Isopropylbenzene	31	5
Bromobenzene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
1,2,3-Trichloropropane	ND	5
n-Propylbenzene	40	5
2-Chlorotoluene	ND	5
4-Chlorotoluene	ND	5
1,3,5-Trimethylbenzene	10	5
tert-Butylbenzene	ND	5
1,2,4-Trimethylbenzene	22	5
sec-Butylbenzene	24	5
1,3-Dichlorobenzene	ND	5
p-Isopropyltoluene	ND	5
1,4-Dichlorobenzene	ND	5
1,2-Dichlorobenzene	ND	5
n-Butylbenzene	ND	5
1,2-Dibromo-3-chloropropane	ND	5
1,2,4-Trichlorobenzene	ND	10
Hexachlorobutadiene	ND	10
Naphthalene	78	10
1,2,3-Trichlorobenzene	ND	10
1,2,3-1 richiorobenzene	ND	10

Analytical Report EPA 8260

Client: URS Corporation

Project Manager: Mauricio Escobar

Project Name
Associated Plating

Sample ID: EB-1 Date Sampled: 11/1/01 Date Received: 11/2/01

Date Analyzed: 11/2/01 Laboratory ID: T3075-21

Matrix: Water

Surrogate Compounds	Conc.(µg/L)	%Rec.
Dibromofluoromethane	38.75	97
Toluene-d8	41.71	104
4-Bromofluorobenzene	39.31	98

Compound	Conc. (µg/L)	RL
		(µg/L)
Dichlorodifluoromethane	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichiorofluoromethane	ND	10
1,1-Dichloroethene	ND	10
Methylene chloride	ND	10
trans-1,2-Dichloroethene	ND	10
1,1-Dichloroethane	ND	10
2,2-Dichloropropane	ND	5
cis-1,2-Dichloroethene	ND	5
Bromochloromethane	ND	5
Chloroform	ND	5
1,1,1-Trichloroethane	ND	5
Carbon Tetrachloride	ND	5
1-1-Dichloropropene	ND	5
Benzene	ND	5
1,2-Dichloroethane	ND	5
Trichloroetherie	ND	5
1,2-Dichloropropane	ND	5
Dibromomethane	ND	5
Bromodichloromethane	ND	5
cis-1,3-Dichloropropene	ND	5
Toluene	ND	5
trans-1,3-Dichloropropene	ND	5
1,1,2-Trichloroethane	ND	5
Tetrachloroethene	ND	5
1,3-Dichloropropane	ND	5
Dibromochloromethane	ND	5

Cd	Conc. (µg/L)	RL
Compound		(µg/L)
1,2-Dibromoethane	ND	5
Chlorobenzene	ND ND	5
1,1,1,2-Tetrachloroethane	ND	5
Ethyl benzene	ND	5
m&p-Xylene	ND	10
o-Xylene	ND	5
Styrene	ND	5
Bromoform	21	5
Isopropylbenzene	NĐ	5
Bromobenzene	ND .	5
1,1,2,2-Tetrachloroethane	ND	5
1,2,3-Trichloropropane	ND	_ 5
n-Propylbenzene	ND	5
2-Chlorotoluene	ND	5
4-Chlorotoluene	ND	5
1,3,5-Trimethylbenzene	ND	5
tert-Butylbenzene	ND	5
1,2,4-Trimethylbenzene	NĐ	5
sec-Butylbenzene	ND	5
1,3-Dichlorobenzene	ND	5
p-Isopropyltoluene	ND	5
1,4-Dichlorobenzene	ND	5
1,2-Dichlorobenzene	, ND	5
n-Butylbenzene	ND	5
1,2-Dibromo-3-chloropropane	ND	5
1,2,4-Trichlorobenzene	ND	10
Hexachlorobutadiene	ND	10
Naphthalene	ND	10
1,2,3-Trichlorobenzene	ND	10

Quality Control Analysis EPA 8270

Client: URS Corporation

Project Manager: Mauricio Escobar

Project Name Associated Plating Date Analyzed: 11/8/01 Batch ID: T3075

Matrix: Soil Sample Spiked: LCS

Matrix Spike and Matrix Spike Duplicate Analysis

		3						QC	Limits
Compound	Conc.Spike Added(mg/Kg)	Sample Result	Conc. MS	% Rec.	Conc. MSD	% Rec.	RPD	RPD	Percent Recovery
Phenol	50	0	35	70	36	72	3	42	12-89
2-Chlorophenol	50	0	43	86	44	88	2	40	27-123
1,4-Dichlorobenzene	50	0	46	92	45	90_	2	28	36-97
N-nitroso-di-n-propy	50	0	30	60	31	62	3	38	41-116
1,2,4-Trichlorobenzene	50	0	43	86	47	94	9	28	39-98
4-Chloro-3-methlyphe	50	0	40	80	42	84	5	42	23-97
Acenaphthene	50	0	46	92	44	88	4	31	46-118
4-Nitrophenol	50	0	25	50	23	46	8	50	10-80
2,4-Dinitrotoluene	50	0	28	56	24	48	15	38	24-96
Pentachlorophenol	50	0	45	90	37	74	20	50	9-103
Pyrene	50	0	53	106	48	96	10	31	26-127

Analytical Report EPA 8270

Client: URS Corporation

Project Manager: Mauricio Escobar Project Name: Associated Plating

Laboratory ID: T3075-MB

Matrix: Soil

Sample ID: Method Blank Date Sampled: NA Date Received: NA Date Extracted: 11/8/01 Date Analyzed: 11/8/01

Surrogate Compounds:	Conc. (mg/Kg)	% Rec
2-Fluorophenol	40.35	80.7
Phenol-d6	45.68	91.4
Nitrobenzene-d5	31.39	62.8

Surrogate Compounds:	Conc. (mg/Kg)	% Rec.
2-Fluorobiphenol	43.21	86.4
2,4,6-Tribromophenol	39.34	78.7
Terphenyl-d14	49.62	99.2

Compounds	Conc. (µg/Kg)	RL (µg/Kg)
N-Nitrosodimethylamine	ND	300
Aniline	ND	300
Phenal	ND	1,000
bis (2-Chloroethyl) Ether	ND	300
2-Chlorophenol	ND	1,000
1, 3-Dichlorobenzene	ND	300
1, 4-Dichlorobenzene	ND	300
1, 2-Dichlorobenzene	ND	300
Benzył Alcohol	ND	300
bis (2-Chloroisopropyl) Ether	ND	300
2-Methylphenol	ND	1,000
4-Methylphenol	ND	1,000
Hexachloroethane	ND	300
N-nitroso-di-n-propylamine	ND	300
Nitrobenzene	ND	300
Isophorone	ND	300
2-Nitrophenol	ND	1,000
2, 4-Dimethylpheno l	ND	1,000
bis (2-Chloroethoxy) Methane	ND	300
Benzoic Acid	ND	300
2, 4-Dichlorophenol	ND	1,000
1, 2, 4-Trichlorobenzene	ND	300
Naphthalene	ND	300
4-Chloroaniline	ND	300
Hexachlorobutadiene	ND	300
4-Chloro-3-methylphenol	ND	1,000
2-Methylnaphthalene	ND	300
Hexachlorocyclopentadiene	ND	300
2, 4, 6-Trichlorophenol	ND	1,000
2, 4, 5-Trichlorophenol	ND	1,000
2-Chloronaphthalene	ND	300
2-Nitroaniline	ND	300
Dknethylphthalate	ND	300
Acenaphthylene	ND	300
Acenaphthene	ND	300

Compounds	Conc. (µg/Kg)	RL (µg/Kg)
3-Nitroaniline	ND	300
2, 4-Dinitrophenol	ND	1,000
Dibenzofuran	ND	300
4-Nitrophenol	ND	1,000
2, 6-Dinitrotoluene	ND	300
2, 4-Dinitrotoluene	ND	300
Diethylphthalate	ND	300
Fluorene	ND	300
4-Chiorophenyl-phenylether	ND	300
4-Nitroaniline	ND	300
N-Nitrosodiphenylamine	ND	300
Azobenzene	ND	300
4, 6-Dinitro-2-methylphenol	ND	1,000
4-Bromophenyl-phenylether	ND	300
Hexachlorobenzene	ND	300
Pentaclorophenol	ND	1,000
Phenanthrene	ND	300
Anthracene	ND	300
Carbazole	ND	300
Di-n-butyl phthalate	ND	300
Fluoranthene	ND	300
Benzidine	ND	300
Pyrene	ND	300
Butylbenzylphthalate	ND	300
Benzo (a) anthrancene	ND	300
3, 3'-Dichlorobenzidine	ND	300
Bis (2-Ethylhexyt) phthalate	ND	300
Chrysene	ND	300
Di-n-octyl phthalate	ND	300
Benzo (b) fluoranthene	ND	300
Benzo (k) fluoranthene	ND	300
Benzo (a) pyrene	ND	300
Indena (1, 2, 3,-cd) pyrene	ND	300
Dibenz (a, h) anthracene	ND	300
Benzo (g, h, i) perylene	ND	300

Analytical Report EPA 8270

RL

Conc. (µg/Kg)

ND

ND

ND

ND

ND

300

300

300

300

300

Client: URS Corporation

Project Manager: Mauricio Escobar Project Name: Associated Plating

Laboratory ID: T3075-06

Matrix: Soil

Compounds

2-Chioronaphthalene

2-Nitroaniline Dimethylphthalate

Acenaphthylene

Acenaphthene

Sample ID: BG2-9

Date Sampled: 11/1/01 Date Received: 11/2/01 Date Extracted: 11/8/01 Date Analyzed: 11/8/01

Surrogate Compounds:	Conc. (mg/Kg)	% Rec.
2-Fluorophenol	2.91	58.2
Phenol-d6	2.45	49.0
Nitrobenzene-d5	2.31	46.2

Compounds	Conc. (µg/Kg)	(µg/Kg)
N-Nitrosodimethylamine	ND	300
Aniline	ND	300
Phenol	ND	1,000
bis (2-Chloroethyl) Ether	ND	300
2-Chiorophenol	ND	1,000
1, 3-Dichlorobenzene	ND	300
1, 4-Dichlorobenzene	ND	300
1, 2-Dichlorobenzene	ND	300
Benzyl Alcohol	ND	300
bis (2-Chloroisopropyl) Ether	ND	300
2-Methylphenol	ND	1,000
4-Methylphenol	ND	1,000
Hexachloroethane	ND	300
N-nitroso-di-n-propylamine	ND	300
Nitrobenzene	ND	300
Isophorone	ND	300
2-Nitrophenol	ND	1,000
2, 4-Dimethylphenol	ND	1,000
bis (2-Chloroethoxy) Methane	ND	300
Benzoic Acid	ΝD	300
2, 4-Dichlorophenol	ND	1,000
1, 2, 4-Trichlorobenzene	ND	300
Naphthalene	ND	300
4-Chloroaniline	ND	300
Hexachlorobutadiene	ND	300
4-Chloro-3-methylphenol	ND	1,000
2-Methylnaphthalene	ND	300
Hexachlorocyclopentadiene	ND	300
2, 4, 6-Trichlorophenol	ND	1,000
2, 4, 5-Trichlorophenol	ND	1,000

Surrogate Compounds:	Conc. (mg/Kg)	% Rec.
2-Fluorobiphenol	4.39	87.8
2,4,6-Tribromophenol	2.32	46.4
Terphenyl-d14	4.70	94.0

Compounds	Conc. (µg/Kg)	RL (µg/Kg)
3-Nitroaniline	ND	300
2, 4-Dinitrophenol	ND ND	1,000
Dibenzofuran	ND	300
4-Nitrophenol	ND	1,000
2, 6-Dinitrolaluene	ND	300
2, 4-Dinitrotoluene	ND	300
Diethylphthalate	ND	300
Fluorene	ND	300
4-Chlorophenyl-phenylether	ND	300
4-Nitroaniline	ND	300
N-Nitrosodiphenylamine	ND	300
Azobenzene	ND	300
4, 6-Dinitro-2-methylphenol	ND	1,000
4-Bromophenyl-phenylether	ND	300
Hexachlorobenzene	ND	300
Pentaclorophenol	ND	1,000
Phenanthrene	ND	300
Anthracene	ND	300
Carbazole	ND	300
Di-n-butył phthalate	ND	300
Fluoranthene	ND	300
Benzidine	ND	300
Pyrene	ND	300
Butylbenzylphthalate	ND	300
Berizo (a) anthrancene	ND	300
3, 3'-Dichlorobenzidine	ND	300
Bis (2-Ethylhexyl) phthalate	ND	300
Chrysene	ND	300
Di-n-octyl phthalate	ND	300
Benzo (b) fluoranthene	ND	300
Benzo (k) fluoranthene	ND	300
Benzo (a) pyrene	ND	300
Indeno (1, 2, 3,-cd) pyrene	ND	300
Dibenz (a, h) anthracene	ND	300
Benzo (g, h, i) perylene	ND	300

Analytical Report EPA 8270

Client: URS Corporation

Project Manager: Mauricio Escobar Project Name: Associated Plating

Laboratory ID: T3075-10

Matrix: Soil

Sample ID: B9-5

Date Sampled: 11/1/01 Date Received: 11/2/01 Date Extracted: 11/8/01 Date Analyzed: 11/8/01

Surrogate Compounds:	Conc. (mg/Kg)	% Rec
2-Fluorophenol	44.47	88.9
Phenol-d6	35.61	71.2
Nitrobenzene-d5	41.49	83.0

Surrogate Compounds:	Conc. (mg/Kg)	% Rec.
2-Fluorobiphenol	47.06	94.1
2,4,6-Tribromophenol	40.83	81.7
Terphenyl-d14	41.49	83.0

Compounds	Conc. (µg/Kg)	RL (µg/Kg)
N-Nitrosodimethylamine	ND	300
Aniline	ND	300
Phenol	ND	1,000
bls (2-Chloroethyl) Ether	ND	300
2-Chlorophenol	ND	1,000
1, 3-Dichlorobenzene	ND	300
1, 4-Dichlorobenzene	ND	300
1, 2-Dichlorobenzene	ND	300
Benzyl Alcohol	ND	300
bis (2-Chloroisopropyl) Ether	ND	300
2-Methylphenol	ND	1,000
4-Methylphenol	ND	1,000
Hexachloroethane	ND	300
N-nitroso-di-n-propylamine	ND	300
Nitrobenzene	ND	300
Isophorone	ND	300
2-Nitrophenol	ND	1,000
2, 4-Dtmethylphenol	ND	1,000
bis (2-Chloroethoxy) Methane	ND	300
Benzoic Acid	ND	300
2, 4-Dichlorophenol	ND	1,000
1, 2, 4-Trichlorobenzene	ND	300
Naphthalene	2500	300
4-Chlorogniline	ND	300
Hexachlorobutadiene	ND	300
4-Chloro-3-methylphenol	ND	1,000
2-Methylnaphthalene	ND	300
Hexachkrocyclopentadiene	ND	300
2, 4, 6-Trichlorophenol	ND	1,000
2, 4, 5-Trichlorophenol	ND	1,000
2-Chloronaphthalene	ND	300
2-Ntroaniline	ND	300
Dimethylphthalate	ND	300
Acenaphthylene	ND	300
Acenaphthene	ND	300

Compounds	Conc. (µg/Kg)	RL (µg/Kg)
3-Nitroaniline	ND	300
2, 4-Dinitrophenol	ND	1,000
Dibenzofuran	ND	300
4-Nitrophenal	ND	1,000
2, 6-Dinitrotoluene	ND	300
2, 4-Dinitrotoluene	ND	300
Diethylphthalate	ND	300
Fluorene	490	300
4-Chlorophenyl-phenylether	ND	300
4-Nitroaniline	ND	300
N-Nitrosodiphenylamine	ND	300
Azobenzene	ND	300
4, 6-Dinitro-2-methylphenol	ND	1,000
4-Bromophenyl-phenylether	ND	300
Hexachlorobenzene	ND	300
Pentaciorophenol	ND	1,000
Phenanthrene	690	300
Anthracene	ND	300
Carbazole	ND	300
Di-n-butyl phthelate	ND	300
Fluoranthene	ND	300
Benzidine	ND	300
Pyrene	ND	300
Butylbenzylphthalate	ND	300
Benzo (a) anthrancene	ND	300
3, 3'-Dichlorobenzidine	ND	300
Bis (2-Ethylhexyl) phthalate	ND	300
Chrysene	ND	300
Di-n-octyl phthalate	ND	300
Benzo (b) fluoranthene	ND	300
Benzo (k) fluoranthene	ND	300
Benzo (a) pyrene	ND	300
Indeno (1, 2, 3,-cd) pyrene	ND	300
Dibenz (a, h) anthracene	ND	300
Benzo (g, h, l) perylene	ND	300

SunStar Laboratories, Inc.

Analytical Report EPA 8270

Surrogate Compounds:

Client: URS Corporation

Project Manager: Mauricio Escobar Project Name: Associated Plating

Laboratory ID: T3075-16

Matrix: Soil

Sample ID: B8-5

Date Sampled: 11/1/01 Date Received: 11/2/01 Date Extracted: 11/8/01 Date Analyzed: 11/8/01

Conc. (mg/Kg) % Rec.

86.8 84.2

86.2

Surrogate Compounds:	Conc. (mg/Kg)	% Rec.
2-Fluorophenol	36.81	73.6
Phenol-d6	38.41	76.8
Nitrobenzene-d5	41.80	83.6

2-Fluorophenol	36.81	73.6	2-Fluorobiphenol	43.41
Phenol-d6	38.41	76.8	2,4,6-Tribromophenol	42.10
Nitrobenzene-d5	41.80	83.6	Terphenyl-d14	43.12
Compounds	Conc. (µg/Kg)	RL (μg/Kg)	Compounds	Conc. (µg/k
Compounds N-Nitrosodimethylamine	Conc. (µg/Kg)		Compounds 3-Nitroaniline	Conc. (µg/h

Compounds	Conc. (µg/Kg)	RL (µg/Kg)
N-Nitrosodimethylamine	ND	300
Aniline	ND	300
Phenol	ND	1,000
bis (2-Chloroethyl) Ether	ND	300
2-Chlorophenol	ND	1,000
1, 3-Dichlorobenzene	ND	300
1, 4-Dichlorobenzene	ND	300
1, 2-Dichlorobenzene	ND	300
Benzyl Alcohol	ND	300
bis (2-Chloroisopropyl) Ether	ND	300
2-Methylphenol	ND	1,000
4-Methylphenol	ND	1,000
Hexachloroethane	ND	300
N-nitroso-di-n-propylamine	ND	300
Nitrobenzene	ND	300
Isophorone	ND	300
2-Nitrophenol	ND	1,000
2, 4-Dimethylphenol	ND	1,000
bis (2-Chloroethoxy) Methane	ND	300
Benzoic Acid	ND	300
2, 4-Dichlorophenol	ND	1,000
1, 2, 4-Trichlorobenzene	ND	300
Naphthalene	2700	300
4-Chloroaniline	ND	300
Hexachlorobutadiene	ND	300
4-Chloro-3-methylphenol	ND	1,000
2-Methylnaphthalene	4000	300
Hexachlorocyclopentadiene	ND	300
2, 4, 6-Trichlorophenol	ND	1,000
2, 4, 5-Trichlorophenol	ND	1,000
2-Chłoronaphthalene	ND	300
2-Nitroaniline	ND	300
Dimethylphthalate	ND	300
Acenaphthylene	ND	300
Acenaphthene	ND	300

Compounds	Conc. (µg/Kg)) RL (µg/Kg)		
3-Nitroaniline	ND	300		
2, 4-Dinitrophenal	ND	1,000		
Dibenzofuran	ND	300		
4-Nitrophenol	ND	1,000		
2, 6-Dinitrotoluene	ND	300		
2, 4-Dinitrotoluene	ND	300		
Diethylphthalate	ND	300		
Fluorene	550	300		
4-Chlorophenyl-phenylether	ND	300		
4-Nitroanillne	ND	300		
N-Nitrosodiphenylamine	ND	300		
Azobenzene	ND	300		
4, 6-Dinitro-2-methylphenol	ND	1,000		
4-Bromophenyl-phenylether	ND	300		
Hexachlorobenzene	ND	300		
Pentaclorophenol	ND	1,000		
Phenanthrene	690	300		
Anthracene	ND	300		
Carbazole	ND	300		
Ol-n-butyl phthalate	ND	300		
Fluoranthene	ND	300		
Benzidine	ND	300		
Pyrene	ND	300		
Butylbenzylphthalate	ND	300		
Benzo (a) anthrancene	ND	300		
3, 3'-Dichlorobenzidine	ND	300		
Bis (2-Ethylhexyl) phthalate	ND	300		
Chrysene	ND	300		
Di-n-octyl phthalate	ND	300		
Benzo (b) fluoranthene	ND	300		
Berizo (k) fluoranthene	ND	300		
Berizo (a) pyrene	ND	300		
Indeno (1, 2, 3,-cd) pyrene	ND	300		
Dibenz (a, h) anthracene	ND	300		
Benzo (g, h, i) perylene	ND	300		

SunStar Laboratories, Inc.

Analytical Report EPA 8270

Client: URS Corporation

Project Manager: Mauricio Escobar Project Name: Associated Plating

Laboratory ID: T3075-19

Matrix: Soil

Sample ID: B6-0.5

Date Sampled: 11/1/01 Date Received: 11/2/01 Date Extracted: 11/8/01 Date Analyzed: 11/8/01

Surrogate Compounds:	Conc. (mg/Kg)	% Rec.
2-Fluorophenol	39.61	79.2
Phenol-d6	41.65	83.3
Nitrobenzene-d5	36.90	73.8

Conc. (mg/Kg)	% Rec.
42.21	84.4
37.98	76.0
42.31	84.6
	42.21 37.98

Compounds	Conc. (µg/Kg)	RL (µg/Kg)
N-Nitrosodimethylamine	ND	300
Aniline	ND	300
Phenol	ND	1,000
bis (2-Chloroethyl) Ether	ND	300
2-Chlorophenol	ND	1,000
1, 3-Dichlorobenzene	ND	300
1, 4-Dichlorobenzene	ND	300
1, 2-Dichlorobenzene	ND	300
Benzyl Alcohol	ND	300
bis (2-Chloroisopropyl) Ether	ND	300
2-Methylphenol	ND	1,000
4-Methylphenol	ND	1,000
Hexachloroethane	ND	300
N-nitroso-di-n-propylamine	ND	300
Nitrobenzene	ND	300
Isophorone	ND	300
2-Nitrophenol	ND	1,000
2, 4-Dimethylphenol	ND	1,000
bis (2-Chioroethoxy) Methane	ND	300
Benzolc Acid	ND	300
2, 4-Dichlorophenol	ND	1,000
1, 2, 4-Trichloroberizene	ND	300
Naphthalene	ND	300
4-Chloroaniline	ND	300
Hexachlorobutadiene	ND	300
4-Chloro-3-methy i phenol	ND	1,000
2-Methylnaphthalene	ND	300
Hexachlorocyclopentadiene	ND	300
2, 4, 6-Trichlorophenol	ND	1,000
2, 4, 5-Trichlorophenol	ND	1,000
2-Chloronaphthalene	ND	300
2-Nitroaniline	ND	300
Dimethylphthalate	ND	300
Acenaphthylene	ND	300
Acenaphthene	ND	300

Compounds	Conc. (µg/Kg)	RL (µg/Kg)
3-Nitroaniline	ND	300
2, 4-Dinitrophenol	ND	1,000
Dibenzofuran	ND	300
4-Nitrophenol	ND	1,000
2, 6-Dinitrotoluene	ND	300
2, 4-Dinitrotoluene	ND	300
Diethylphthalate	ND	300
Fluorene	ND	300
4-Chlorophenyl-phenylether	ND	300
4-Nitroaniline	ND	300
N-Nitrosodiphenylamine	ND	300
Azobenzene	ND	300
4, 6-Dinitro-2-methylphenol	ND	1,000
4-Bromophenyl-phenylether	ND	300
Hexachlorobenzene	ND	300
Pentaclorophenol	ND	1,000
Phenanthrene	ND	300
Anthracene	ND	300
Carbazole	ND	300
Di-n-butyl phthalate	ND	300
Fluoranthene	ND	300
Benzidine	ND	300
Pyrene	ND	300
Butylbenzylphthalate	ND	300
Benzo (a) anthrancene	ND	300
3, 3'-Dichlorobenzidine	ND	300
Bis (2-Ethylhexyl) phthalate	NO	300
Chrysene	ND	300
Di-π-octyl phthalate	ND	300
Benzo (b) fluoranthene	ND	300
Benzo (k) fluoranthene	ND	300
Benzo (a) pyrene	ND	300
Indeno (1, 2, 3,-cd) pyrene	ND	300
Dibenz (a, h) anthracene	ND	300
Benzo (g, h, i) perylene	ND	300

F-1			

Project Number: 59-00115133.01
Project Manager: Mauricio Escobar

Reported: 2/25/02

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B5-1	T200135-01	Soil	2/20/02	2/20/02
B55-1	T200135-02	Soil	2/20/02	2/20/02
B5-5	T200135-03	Soil	2/20/02	2/20/02
B4-1	T200135-04	Soil	2/20/02	2/20/02
B4-5	T200135-05	Soil	2/20/02	2/20/02
B3-1.5	T200135-06	Soil	2/20/02	2/20/02
B3-5	T200135-07	Soil	2/20/02	2/20/02
B11-0.5	T200135-08	Soil	2/20/02	2/20/02
B11-5	T200135-09	Soil	2/20/02	2/20/02
B11-7	T200135-10	Soil	2/20/02	2/20/02
B12-0.5	T200135-11	Soil	2/20/02	2/20/02
B212-0.5	T200135-12	Soil	2/20/02	2/20/02
B12-5	T200135-13	Soil	2/20/02	2/20/02
B12-7	T200135-14	Soil	2/20/02	2/20/02
Rinsate 022002	T200135-15	Water	2/20/02	2/20/02

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Project: Associated Plating Project Number: 59-00115133.01 Project Manager: Mauricio Escobar

Reported:

2/25/02

Extractable Petroleum Hydrocarbons by 8015 SunStar Laboratories, Inc.

Reporting Dilution Batch Prepared Notes Analyte Result Limit Units Analyzed Method B5-1 (T200135-01) Soil Sampled: 02/20/02 00:00 Received: 02/20/02 12:20 02/20/02 EPA 8015B 1200 10 mg/kg 2022004 02/21/02 C6-C10 10 C10-C28 4100 2600 10 C28-C40 B55-1 (T200135-02) Soil Sampled: 02/20/02 00:00 Received: 02/20/02 12:20 C6-C10 1700 10 mg/kg 2022004 02/20/02 02/21/02 EPA 8015B 6200 10 C10-C28 4200 10 C28-C40 B5-5 (T200135-03) Soil Sampled: 02/20/02 00:00 Received: 02/20/02 12:20 C6-C10 100 10 mg/kg 2022004 02/20/02 02/21/02 **EPA 8015B** C10-C28 330 10 C28-C40 550 10 B4-1 (T200135-04) Soil Sampled: 02/20/02 00:00 Received: 02/20/02 12:20 C6-C10 ND 10 mg/kg 2022004 02/20/02 02/21/02 EPA 8015B ND 10 C10-C28 ND C28-C40 10 B4-5 (T200135-05) Soil Sampled: 02/20/02 00:00 Received: 02/20/02 12:20 02/21/02 2022004 02/20/02 **EPA 8015B** C6-C10 61 10 mg/kg C10-C28 140 10 180 10 C28-C40 B3-1.5 (T200135-06) Soil Sampled: 02/20/02 00:00 Received: 02/20/02 12:20 2022004 02/20/02 02/21/02 EPA 8015B 230 10 mg/kg C6-C10 910 10 C10-C28 C28-C40 860 10

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

URS CorporationProject:Associated Plating911 Wilshire BoulevardProject Number:59-00115133.01Reported:Los Angeles CA, 90017Project Manager:Mauricio Escobar2/25/02

Extractable Petroleum Hydrocarbons by 8015 SunStar Laboratories, Inc.

Reporting Dilution Analyte Result Limit Units Batch Prepared Analyzed Method Notes B3-5 (T200135-07) Soil Sampled: 02/20/02 00:00 Received: 02/20/02 12:20 C6-C10 ND 10 2022004 02/20/02 02/21/02 EPA 8015B mg/kg 1 C10-C28 ND 10 ND 10 C28-C40

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Project: Associated Plating

Project Number: 59-00115133.01

Project Manager: Mauricio Escobar

Reported: 2/25/02

Metals by EPA 6010B SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit		Dilution	Batch	Prepared	Analyzed	Method	Notes
B5-1 (T200135-01) Soil	Sampled: 02/20/02 00:00	Received	1: 02/20	/02 12:20					
Antimony	ND	2.0	mg/kg	1	2022206	02/21/02	02/22/02	EPA 6010B	
Arsenic	ND	5.0	"	н	**	н	NJ		
Barium	170	1.0	"	+1	H	**		"	
Beryllium	1.7	1.0	H	**	"		11	19	
Cadmium	4.6	1.0		"	"	11		"	
Chromium	66	1.0	"	н	**	99		tr	
Cobalt	14	1.0	"	н	H		11	**	
Copper	31	1.0	**	*	и	"	**	u	
Lead	23	1.0	"	"	"	н		11	
Мегсигу	ND	0.10			11	**	"	W =	
Molybdenum	ND	1.0	"	11	"	"	-0		
Nickel	28	1.0	**	H		**	*	11	
Selenium	ND	5.0	"	"	"	"		**	
Silver	ND	2.0		**	H		11		
Thallium	25	2.0	**	**		44	"	0	
Vanadium	61	1.0	**		**	**	**		
Zinc	47	1.0			11	"	11	**	
B55-1 (T200135-02) Soil	Sampled: 02/20/02 00:00	Receive	ed: 02/2	0/02 12:20)				
Antimony	ND	2.0	mg/kg	1	2022206	02/21/02	02/22/02	EPA 6010B	
Arsenic	ND	5.0	"		++		н		
Barium	130	1.0	"	11	,,	**	,,	H	
Beryllium	1.4	1.0	41	**		17			
Cadmium	4.0	1.0	"		11	**	11	11	
Chromium	52	1.0	м	**	11		**	**	
Cobalt	13	1.0		**		14			
Copper	27	1.0	11		**	H	11	"	
Lead	18	1.0	**	"	11		PP	н	
Мегсигу	ND	0.10		41	"	41	,,		
Molybdenum	ND	1.0	**	**	P.	**	4		
Nickel	25	1.0	*1		**	**	11	n	
Selenium	ND	5.0	H		н	**	"	н	
Silver	ND	2.0	"	**	"	1+	"	,,	
Thallium	21	2.0		**		,,	11	14	
Vanadium	43	1.0	**		**		**	n	
	34	1.0	13		n	"			

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Project: Associated Plating Project Number: 59-00115133.01

Project Manager: Mauricio Escobar

Reported: 2/25/02

Metals by EPA 6010B SunStar Laboratories, Inc.

	Reporting	-	•					
Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sampled: 02/20/02 00:00	Received	1: 02/20	/02 12:20					
ND		mg/kg	I	2022206	02/21/02	02/22/02	EPA 6010B	
		11	14	"	**	**	Př	
120		н	**	"	*1	**		
1.2		11	"	41	*1	**		
		**	11			**	"	
48		11	Ħ	"	PF	н	14	
11		**	н	41	1107	11	u	
		"	h	11	**	17	11	
	1.0	**	н	11	H	**	11	
	0.10	17	Ħ	41	ff.	**		
ND	1.0	+*	н	41	17	**	"	
22	1.0	"	***	"	**	"	14	
ND	5.0	**	H	**	н	"	u	
ND	2.0	br .	h	++		"	"	
15	2.0	"	"	Ħ			100	
42	1.0			"	"	"	n	
30	1.0	**		"			F1-	
Sampled: 02/20/02 00:00	Received	1: 02/20,	/02 12:20					
ND	2.0	mg/kg	I	2022206	02/21/02	02/22/02	EPA 6010B	
ND	5.0		"		**	**	10	
130	1.0	**	"	ч	н	11	14	
1.3	1.0	"	**	41	PF .	+*	14	
3.7	1.0	"	41	11	"	**	n	
49	1.0	11	77	**		,,	₿1	
12	1.0	11	19	*			kP	
23	1.0	++	"		"			
18	1.0	"	"		**	**		
ND	0.10	"	"	"	н	**		
ND	1.0	,,		"	11	*1	••	
22	1.0			"	IF.	11	19	
ND	5.0	"		**	H	H	"	
				+1	Þ	**	"	
		•	**	71	,,	,,	**	
42	1.0		41	**			10	
	Result Sampled: 02/20/02 00:00 ND ND 120 1.2 3.4 48 11 23 16 ND ND ND ND 15 42 30 Sampled: 02/20/02 00:00 ND ND 130 1.3 3.7 49 12 23 18 ND ND ND 122	Result Limit Sampled: 02/20/02 00:00 Received ND 2.0 ND 5.0 120 1.0 1.2 1.0 3.4 1.0 48 1.0 11 1.0 23 1.0 ND 1.0 ND 1.0 ND 1.0 ND 1.0 ND 1.0 ND 1.0 Sampled: 02/20/02 00:00 Received ND 2.0 ND 5.0 ND	Result	Result Reporting Limit Units Dilution Sampled: 02/20/02 00:00 Received: 02/20/02 12:20 ND 2.0 mg/kg I ND 5.0 " " 120 1.0 " " 122 1.0 " " 3.4 1.0 " " 48 1.0 " " 11 1.0 " " 16 1.0 " " ND 0.10 " " ND 1.0 " " ND 5.0 " " ND 5.0 " " ND 2.0 " " 42 1.0 " " 42 1.0 " " ND 5.0 " " Sampled: 02/20/02 00:00 Received: 02/20/02 02:00 " " ND 5.0 " "	Result Limit Units Dilution Balch ND 2.0 mg/kg ! 2022206 ND 5.0 " " " 120 1.0 " " " 1.2 1.0 " " " 3.4 1.0 " " " 48 1.0 " " " 11 1.0 " " " 23 1.0 " " " ND 0.10 " " " ND 0.1 " " " ND 5.0 " " " ND 5.0 " " " 15 2.0 " " " 42 1.0 " " " ND 2.0 mg/kg I 2022206 ND 5.0 " " "	Result Reporting Limit Units Dilution Batch Prepared Sampled: 02/20/02 00:00 Received: 02/20/02 12:20 ■ ND 2.0 mg/kg 1 2022206 02/21/02 ND 5.0 " " " " 120 1.0 " " " " 122 1.0 " " " " 123 4.10 " " " " 48 1.0 " " " " 11 1.0 " " " " 23 1.0 " " " " ND 0.10 " " " " ND 5.0 " " " " ND 5.0 " " " " Sampled: 02/20/02 00:00 Received: 02/20/02 12:20 12:20 " " " " " "	Result Reporting Limit Units Dilution Batch Prepared Analyzed Sampled: 02/20/02 00:00 Received: 02/20/02 12:20	Result

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Project: Associated Plating Project Number: 59-00115133.01

Project Manager: Mauricio Escobar

Reported:

2/25/02

Metals by EPA 6010B SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Unius	Dilution	Batch	Prepared	Analyzed	Method	Note
B4-5 (T200135-05) Soil	Sampled: 02/20/02 00:00	Received	1: 02/20	/02 12:20					
Antimony	ND	2.0	mg/kg	1	2022206	02/21/02	02/22/02	EPA 6010B	
Arsenic	ND	5.0	"					**	
Barium	150	1.0	**	"	"	14	**	**	
Beryllium	1.6	1.0	"	17	**	**	.,	**	
Cadmium	4.1	1.0	**				41	"	
Chromium	54	1.0	*1		"	**	**		
Cobalt	12	1.0	"	11	11	**	,,	"	
Copper	30	1.0	,	*	"		44	"	
Lead	20	1.0			u	**	P		
Mercury	ND	0.10	"	**	44	**	н		
Molybdenum	ND	1.0	**	**	,,		**	н	
Nickel	25	1.0		м	н	**	n	"	
Selenium	ND	5.0	11	**	"	,	"	"	
Silver	ND	2.0	,,	p		"	**	,,	
Challium	20	2.0			11	**		44	
Vanadium	48	1.0	**	44	p		11	"	
Line	43	1.0	**	,,		н	"	"	
B3-1.5 (T200135-06) Soil	Sampled: 02/20/02 00:06	0 Receiv	ed: 02/2	20/02 12:2	0				
Antimony	ND	2.0	mg/kg	1	2022206	02/21/02	02/22/02	EPA 6010B	
Arsenic	ND	5.0			11	**		"	
Barium	170	1.0	"	11	**		11		
Beryllium	1.8	1.0	**	**	н	**	"	"	
Cadmium	5.0	1.0	"		н	"		m.	
Chromium	71	1.0	**	41	**	•	11		
Cobalt	15	1.0	"	**	"	**	n		
Copper	31	1.0	"	n	**	"	**	17	
Lead	25	1.0		**	"	*	44		
Mercury	ND	0.10	11	ii-		**	"		
Molybdenum	ND	1.0	н	"	"	"	"	*1	
Nickel	29	1.0	,,	"	"		11		
Selenium	ND	5.0	"	**		44	,,	**	
Silver	ND	2.0	10	,,	"	"	и	11	
Thallium	27	2.0			PT		н		
Vanadium	61	1.0	"	"		11		11	
· desire rep fifter	**	1.0				**	.,	,,	

SunStar Laboratories, Inc.

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Project: Associated Plating Project Number: 59-00115133.01

Project Manager: Mauricio Escobar

Reported: 2/25/02

Metals by EPA 6010B SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Balch	Prepared	Analyzed	Method	Notes
B3-5 (T200135-07) Soil	Sampled: 02/20/02 00:00	Received	1: 02/20	/02 12:20					
Antimony	ND	2.0	mg/kg	I	2022206	02/21/02	02/22/02	EPA 6010B	
Arsenic	ND	5.0		*1	"	"		**	
Barium	110	1.0		11	"	**		н	
Beryllium	1.1	1.0		11	"	**	"	PP	
Cadmium	3.1	1.0		11	11	"	41	b	
Chromium	44	1.0	н	Ħ	**		*1	"	
Cobalt	10	1.0	"	**	#1		+1		
Copper	23	1.0	"	"	н		"		
Lead	15	1.0	**	"	**	**	**		
Mercury	ND	0.10	"	**	"	44	,,		
Molybdenum	ND	1.0	11	"	"	11		"	
Nickel	20	1.0	11	"	"	1+		"	
Selenium	ND	5.0	1,000			H	**	**	
Silver	ND	2.0	**			н	*1	н	
Thallium	13	2.0	Ħ			"	41	**	
Vanadium	36	1.0	*	**	44	"	11		
Zinc	73	1.0	"	"	"		"		

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Project: Associated Plating Project Number: 59-00115133.01

Project Manager: Mauricio Escobar

Reported:

2/25/02

Volatile Organic Compounds by EPA Method 8260B SunStar Laboratories, Inc.

		Reporting	*1-i-	Diluies	Death	Donner	A la l	Maked	Naces
Analyte	Result		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B5-1 (T200135-01) Soil	Sampled: 02/20/02 00:00	Received	1: 02/20	/02 12:20					
Benzene	ND	5.0	ug/kg	1	2022002	02/20/02	02/21/02	EPA 8260B	
Bromobenzene	ND	5.0			"		н	н	
Bromochloromethane	ND	5.0		"	"	"	"	D	
Bromodichloromethane	ND	5.0	**	**	4	11	ph	"	
Bromoform	ND	5.0	**	Pr .	**	,,			
Bromomethane	ND	5.0	16.	Ħ	H	by .	11	"	
n-Butylbenzene	13	5.0	**		U		11	33	
sec-Butylbenzene	25	5.0		"	"	"	"		
tert-Butylbenzene	ND	5.0	•	u	"	41			
Carbon tetrachloride	ND	5.0		n	*1	"	**	**	
Chlorobenzene	ND	5.0	"	*	11	h	11	n	
Chloroethane	ND	5.0	11				**	H	
Chloroform	ND	5.0	"	"		**			
Chloromethane	ND	5.0		"	н	**		44	
2-Chlorotoluene	ND	5.0		14	11	*	11	11	
4-Chlorotoluene	ND	5.0	*1	**	**		н	D	
Dibromochloromethane	ND	5.0	11		"	41			
1,2-Dibromo-3-chloropro	pane ND	5.0	**	**	и	11	**	**	
1,2-Dibromoethane (EDB		5.0	"	"	**	++	**	11	
Dibromomethane	ND	5.0		11	H		н	**	
1,2-Dichlorobenzene	ND	5.0	11				n		
1,3-Dichlorobenzene	ND	5.0	**			**			
1,4-Dichlorobenzene	ND	5.0		11	11	**	44	.0.	
Dichlorodifluoromethane	ND	5.0	**	- 10	11		**	,,	
1,1-Dichloroethane	ND	5.0	**	,,	"		**		
1,2-Dichloroethane	ND	5.0	**	4	u.	41			
1,1-Dichloroethene	ND	5.0	*		"	,,	"	17	
cis-1,2-Dichloroethene	ND	5.0		17	n	,,	11		
trans-1,2-Dichloroethene	ND	5.0	"		**		"		
1,2-Dichloropropane	ND	5.0	**	n		44		**	
1,3-Dichloropropane	ND	5.0	•		**	Tir .	**	H	
2,2-Dichloropropane	ND	5.0	**	"	**	"	14		
1,1-Dichloropropene	ND	5.0		11	*		"	**	
cis-1,3-Dichloropropene	ND	5.0	"	,,	н	н	и	11	
trans-1,3-Dichloropropens	•	5.0	**		ч	11	"	"	
Ethylbenzene	15	5.0	n.	н	*1	"	hr	44	
Hexachlorobutadiene	ND	5.0		**	11	h	n	**	
Isopropylbenzene	12	5.0		*		ч	и	и	
p-Isopropyltoluene	13	5.0	.,	,,		**	"		
Methylene chloride	ND	5.0	11		и	"	ĮÞ.		
Naphthalene	94	5.0	**			,,	"	11	

SunStar Laboratories, Inc.

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Leah Beauchaine, Project Manager

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Project: Associated Plating
Project Number: 59-00115133.01
Project Manager: Mauricio Escobar

Reported:

2/25/02

Volatile Organic Compounds by EPA Method 8260B SunStar Laboratories, Inc.

•			Units	Dilution	Batch	Prepared	Analyzed	Method	Note
	Sampled: 02/20/02 00:00	Received	1: 02/20	/02 12:20					
1-Propylbenzene	14	5.0	ug/kg	I	2022002	02/20/02	02/21/02	EPA 8260B	
Styrene	ND	5.0	11	#	"	**	**	**	
,1,2,2-Tetrachloroethane	ND	5.0	**	11		"	**	"	
,1,1,2-Tetrachloroethane	ND	5.0	11	н	"	**	"		
Tetrachloroethene	ND	5.0	17	Ħ	41				
Toluene	ND	5.0	11	н .	"	**		"	
,2,3-Trichlorobenzene	ND	5.0	11	**	41				
,2,4-Trichlorobenzene	ND	5.0	н	**	11		"	u	
,1,2-Trichloroethane	ND	5.0	+1	Ħ	11	м	**		
,1,1-Trichloroethane	ND	5.0	11	**	11				
Crichloroethene	ND	5.0	н	"	**	"	"	"	
Prichlorofluoromethane	ND	5.0	"	11	**	ч	**	11	
,2,3-Trichloropropane	ND	5.0	**		"	"	н	19	
,3,5-Trimethylbenzene	34	5.0	"		**	11	"		
2,4-Trimethylbenzene	21	5.0	"			**	**	**	
/inyl chloride	ND	5.0	"			**	"	D	
n,p-Xylene	ND	5.0	"	"		**		w	
-Xylene	ND	5.0				"		"	
Surrogate: Toluene-d8		97.0 %	81-	117	"	"	"		
Surrogate: 4-Bromofluorob	enzene	107 %	74-	121	"	,,	"	**	
Surrogate: Dibromofluoron		106 %		120	"	"	"	Pr	
355-1 (T200135-02) Soil					D				
	_	5.0			2022002	02/20/02	02/21/02	EPA 8260B	
Benzene	ND ND	5.0	ug/kg "	1	ZUZZUUZ "	02/20/02	0221702	"	
Bromobenzene	ND ND	5.0		,,		**			
Bromochloromethane			"		а		**	"	
Bromodichloromethane	ND	5.0	11			,,	**	11	
Bromoform	ND	5.0	"				- 10	н	
Bromomethane	ND	5.0	11	"			,,		
ı-Butylbenzene	9.8	5.0	**	"	"	"	,,		
ec-Butylbenzene	21	5.0	11	4	"	11	,,	»	
ert-Butylbenzene	ND	5.0	**	"	**	ir.		,,	
Carbon tetrachloride	ND	5.0			**	н		,, D	
Chlorobenzene	ND	5.0	**	"	**	"	"		
Chloroethane	ND	5.0	**	#	,				
Chloroform	ND	5.0	**	Ħ					
Chloromethane	ND	5.0	rt	11	**		"	"	
-Chlorotoluene	ND	5.0	**	"		"	41	14	
-Chlorotoluene Dibromochloromethane	ND ND	5.0 5.0	H	"	,,		*1	#1	

SunStar Laboratories, Inc.

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La Bauchine

Project: Associated Plating Project Number: 59-00115133.01

Project Manager: Mauricio Escobar

Reported:

2/25/02

Volatile Organic Compounds by EPA Method 8260B SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B55-1 (T200135-02) Soil	Sampled: 02/20/02 00:00	Receive	d: 02/2	0/02 12:20)				
1,2-Dibromo-3-chloropropa	ane ND	5.0	ug/kg	1	2022002	02/20/02	02/21/02	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	5.0		"	h	#	**	#	
Dibromomethane	ND	5.0	"	н		"	**	,,	
1,2-Dichlorobenzene	ND	5.0	11	п	**		"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	11	*1		**	
1,4-Dichlorobenzene	ND	5.0	19		**	н	**	**	
Dichlorodifluoromethane	ND	5.0	"	*1			**		
1,1-Dichloroethane	ND	5.0	11	**	**	"		11	
1,2-Dichloroethane	ND	5.0	н	"	**	**	Ħ	**	
1,1-Dichloroethene	ND	5.0		11		"	P		
cis-1,2-Dichloroethene	ND	5.0	"	*1	и	"		**	
trans-1,2-Dichloroethene	ND	5.0	11	**	11	#	f1	**	
1,2-Dichloropropane	ND	5.0	,,		n	"	"	**	
1,3-Dichloropropane	ND	5.0		"		"		/11	
2,2-Dichloropropane	ND	5.0	44	11	f 1	**	11		
1,1-Dichloropropene	ND	5.0	**		")1	"	**	
cis-1,3-Dichloropropene	ND	5.0	19	"	м		**	н	
trans-1,3-Dichloropropene	ND	5.0		**	*1	**	"		
Ethylbenzene	12	5.0	**	Ħ	#	"	a>	41	
Hexachlorobutadiene	ND	5.0	+					11	
Isopropylbenzene	11	5.0	**	"		11	14		
p-Isopropyltoluene	8.7	5.0		11	11	**	н	44	
Methylene chloride	ND	5.0	11	"	*		**	41	
Naphthalene	70	5.0	**	10		11	"	*	
n-Propylbenzene	10	5.0		**	**	"		11	
Styrene	ND	5.0	"	n	**			44	
1,1,2,2-Tetrachloroethane	ND	5.0	11			**	u	"	
1,1,1,2-Tetrachloroethane	ND	5.0	"	"	"	**	"	"	
Tetrachloroethene	ND	5.0	**	"	11			11	
Toluene	ND	5.0		**	н	41	ч	Ħ	
1,2,3-Trichlorobenzene	ND	5.0	**	"	и	1)	и		
1,2,4-Trichlorobenzene	ND	5.0	rt		"	"		**	
1,1,2-Trichloroethane	ND	5.0		44	+7	**	**	**	
1,1,1-Trichloroethane	ND	5.0	"	н	**	**	11		
Trichloroethene	ND	5.0	*1	м	н	μ	"	н	
Trichlorofluoromethane	ND	5.0	11		41			>>	
1,2,3-Trichloropropane	ND	5.0	"	"	"	*1	41	"	
1,3,5-Trimethylbenzene	24	5.0	"	Ħ	,,	"		PP	
1,2,4-Trimethylbenzene	7.9	5.0	"	**	н			n	
Vinyl chloride	ND	5.0	11		11	41	*1	u u	
m,p-Xylene	ND	5.0	,,		**	**	+	14	

SunStar Laboratories, Inc.

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Leah Beauchaine, Project Manager

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Project: Associated Plating Project Number: 59-00115133.01

Project Manager: Mauricio Escobar

Reported:

2/25/02

Volatile Organic Compounds by EPA Method 8260B

SunStar Laboratories, Inc.

		щізіа	LAU	oratori	cs, IIIc.		<u></u>		
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B55-1 (T200135-02) Soil	Sampled: 02/20/02 00:00	Receive	ed: 02/2	0/02 12:20	0	•			
o-Xylene	ND	5.0	ug/kg	1	2022002	02/20/02	02/21/02	EPA 8260B	
Surrogate: Toluene-d8		98.5 %	81	-117	u	,,	"	"	
Surrogate: 4-Bromofluorob	enzene	105 %	74	-121	"	**	"	"	
Surrogate: Dibromofluoron		110 %		-120	"	et	"	,,	
B5-5 (T200135-03) Soil		Received	1: 02/20	/02 12:20					
Benzene	ND	5.0	ug/kg	1	2022002	02/20/02	02/20/02	EPA 8260B	
Bromobenzene	ND	5.0	"	"		41	н	11	
Bromochloromethane	ND	5.0		н	"	**	11	41	
Bromodichloromethane	ND	5.0	н	**	n		*1	**	
Bromoform	ND	5.0	"		n	н	**	44	
Bromomethane	ND	5.0	**		**	14	41	**	
n-Butylbenzene	ND	5.0	,,		"	**	44	41	
sec-Butylbenzene	ND	5.0	*		H		**	41	
tert-Butylbenzene	ND	5.0	"		rr		44	44	
Carbon tetrachloride	ND	5.0	**	,,	#		**	41	
Chlorobenzene	ND	5.0	н		#		"	44	
Chloroethane	ND	5.0	41		#			44	
Chloroform	ND	5.0	**	"	41		**	**	
Chloromethane	ND	5.0	44		н	"	**	11	
2-Chlorotoluene	ND	5.0	**	11	Ħ		**	41	
4-Chlorotoluene	ND	5.0	11		17	14	11	10	
Dibromochloromethane	ND	5.0	11	n	H	н	31	**	
1,2-Dibromo-3-chloropropa		5.0	-11		"	41	н	"	
1,2-Dibromoethane (EDB)	ND	5.0	11	11	**	*1	pr	"	
Dibromomethane	ND	5.0	**		"	41	•	"	
1,2-Dichlorobenzene	ND	5.0	TF	"		**	"	10	
1,3-Dichlorobenzene	ND	5.0	**		n	11	n		
1,4-Dichlorobenzene	ND	5.0	*1		,,	41	,,		
Dichlorodifluoromethane	ND	5.0	н			81	n		
1,1-Dichloroethane	ND	5.0	11		"	41			
1,2-Dichloroethane	ND	5.0	11		,,	11	10	u	
I,I-Dichloroethene	ND	5.0	**		**	11			
cis-1,2-Dichloroethene	ND	5.0	11		n	81	n		
trans-1,2-Dichloroethene	ND	5.0	41		"	41	v		
1,2-Dichloropropane	ND	5.0	"		**	н	"	u	
1,3-Dichloropropane	ND	5.0	11			11		14	
2,2-Dichloropropane	ND	5.0	"		"	41	,,	и	
1,1-Dichloropropene	ND	5.0	")	14	,	н	
cis-1,3-Dichloropropene	ND	5.0	"			**		**	
cis-1,5-Dicinotopropene	ND	5.0							

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Lean Beauchaine, Project Manager

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Project: Associated Plating Project Number: 59-00115133.01

Project Manager: Mauricio Escobar

Reported:

2/25/02

Volatile Organic Compounds by EPA Method 8260B

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B5-5 (T200135-03) Soil Sampled	: 02/20/02 00:00	Received	: 02/20	/02 12:20					
trans-1,3-Dichloropropene	ND	5.0	ug/kg	1	2022002	02/20/02	02/20/02	EPA 8260B	
Ethylbenzene	ND	5.0	**	"	**		**	**	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	n			47	**	D	
p-Isopropyltoluene	ND	5.0			н	79			
Methylene chloride	ND	5.0	41		u	**	"	41	
Naphthalene	52	5.0	н	**	11	"	11	"	
n-Propylbenzene	ND	5.0	11	*	**	"	"	"	
Styrene	ND	5.0	**	"	"	4+			
1,1,2,2-Tetrachloroethane	ND	5.0	"	ph		**			
1,1,1,2-Tetrachloroethane	ND	5.0	**			"	"	**	
Tetrachloroethene	ND	5.0		11	11		H	**	
Toluene	ND	5.0	**	н	"	81	"		
1,2,3-Trichlorobenzene	ND	5.0	41	**		**			
1,2,4-Trichlorobenzene	ND	5.0	"			**	11	"	
1,1,2-Trichloroethane	ND	5.0		**	"		**	++	
1,1,1-Trichloroethane	ND	5.0		"	н		**	10	
Trichloroethene	ND	5.0	"	Ħ	**	4*	"		
Trichlorofluoromethane	ND	5.0	44	"	"	+1		"	
1,2,3-Trichloropropane	ND	5.0	H		a		41	11	
I,3,5-Trimethylbenzene	ND	5.0	**		"		н	H	
1,2,4-Trimethylbenzene	ND	5.0		41	**	н		n	
Vinyl chloride	ND	5.0	14	н		77			
m,p-Xylene	ND	5.0	*1	D	a	**	"	**	
o-Xylene	ND	5.0	17		**		**	#	
Surrogate: Toluene-d8		100 %	81-	-117	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	74	-121	"	"	"	a	
Surrogate: Dibromofluoromethane		118 %		-120	"	"	"	**	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Project: Associated Plating
Project Number: 59-00115133.01
Project Manager: Mauricio Escobar

Reported: 2/25/02

Volatile Organic Compounds by EPA Method 8260B

SunStar Laboratories, Inc.

	· · · ·	Junota			,			<u> </u>	
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B4-1 (T200135-04) Soil	Sampled: 02/20/02 00:00	Received	1: 02/20	/02 12:20					
Benzene	ND	5.0	ug/kg	I	2022002	02/20/02	02/20/02	EPA 8260B	
Bromobenzene	ND	5.0		"	"	11	#		
Bromochloromethane	ND	5.0	,,	н	"	н	**		
Bromodichloromethane	ND	5.0		п	"	**	**	•	
Bromoform	ND	5.0		u	"	,,	**	"	
Bromomethane	ND	5.0	"	"	"	13		**	
n-Butylbenzene	ND	5.0	.,	н				ч	
sec-Butylbenzene	25	5.0		"		,		et	
tert-Butylbenzene	ND	5.0		**			"	"	
Carbon tetrachloride	ND	5.0		и				44	
Chlorobenzene	ND	5.0)1	"		"	11	
Chloroethane	ND	5.0			11	**		111	
Chloroform	ND	5.0		11	**		**	н	
Chloromethane	ND	5.0			**	"		Ħ	
2-Chlorotoluene	ND	5.0			11	**	11	"	
4-Chlorotoluene	ND	5.0			**	44	44	*	
Dibromochloromethane	ND	5.0	v		#1	11	41	"	
I,2-Dibromo-3-chloropropa	ne ND	5.0		и	**	1+	+1	"	
1,2-Dibromoethane (EDB)	ND	5.0			**	10	н	10	
Dibromomethane	ND	5.0	"		**	"	**	"	
1,2-Dichlorobenzene	ND	5.0		"	"		"		
1,3-Dichlorobenzene	ND	5.0	"	*1				"	
1,4-Dichlorobenzene	ND	5.0	"	17			**	н	
Dichlorodifluoromethane	ND	5.0	11	**	н	**	**	0	
I,1-Dichloroethane	ND	5.0	**	"	"	41	16	"	
I,2-Dichloroethane	ND	5.0			11	,,	*		
1,1-Dichloroethene	ND	5.0	Pr	h	17				
cis-1,2-Dichloroethene	310	5.0	"		**			ir ir	
trans-1,2-Dichloroethene	47	5.0		и	**	14		H	
I,2-Dichloropropane	ND	5.0		"	**		44	11	
I,3-Dichloropropane	ND	5.0				**	**	H	
2,2-Dichloropropane	ND	5.0		"	"	**	'n	n	
1,I-Dichloropropene	ND	5.0		"		31	н	43	
cis-1,3-Dichloropropene	ND	5.0		**		**	"	"	
trans-1,3-Dichloropropene	ND	5.0		#1	14	"		by	
Ethylbenzene	120	5.0	и	**		**	"		
Hexachlorobutadiene	ND	5.0	"	79			"		
Isopropylbenzene	48	5.0	"	н	41			41	
p-Isopropyltoluene	ND	5.0	"	н	44			"	
	ND	5.0	11		**	"	**	11	
			"	11	41	"	**	**	
Methylene chloride Naphthalene	ND 310	5.0 5.0	"						

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be repraduced in its entirety.

John auchine

Project: Associated Plating Project Number: 59-00115133.01

Project Manager: Mauricio Escobar

Reported:

2/25/02

Volatile Organic Compounds by EPA Method 8260B

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
34-1 (T200135-04) Soil	Sampled: 02/20/02 00:00	Received	1: 02/20	/02 12:20					
ı-Propylbenzene	73	5.0	ug/kg	1	2022002	02/20/02	02/20/02	EPA 8260B	
Styrene	ND	5.0	"	**	**	**	u u	**	
,1,2,2-Tetrachloroethane	ND	5.0	D.	*	**		**	н	
,1,1,2-Tetrachloroethane		5.0			"			11	
Tetrachloroethene	ND	5.0	"	"	"	"	**	"	
'oluene	ND	5.0	"		,,	"	"	ы	
,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	**	"	
,2,4-Trichlorobenzene	ND	5.0	-11	41	ч	11	,,		
,1,2-Trichloroethane	ND	5.0	40	71		**	**	**	
,1,1-Trichloroethane	ND	5.0	H	**	41	"		11	
richloroethene	ND	5.0	**	19	41	"	"	IF.	
richlorofluoromethane	ND	5.0	"	"	**	14	11	"	
,2,3-Trichloropropane	ND	5.0			n	"	H	11	
,3,5-Trimethylbenzene	ND	5.0	u	**	"	41	n	u	
,2,4-Trimethylbenzene	ND	5.0	"	"	"	**	"	44	
inyl chloride	ND	5.0	"	***	"	**		10	
Lp-Xylene	ND	5.0	н	"	41		"	40	
-Xylene	ND	5.0	**	"	**		"	**	
urrogate: Toluene-d8		100 %	81-	117	"	"	"		
urrogate: 4-Bromofluoro	benzene	101 %	74	121	"	**	**	"	
urrogate: Dibromofluore		96.8 %	80-	120	"	kr	"	"	
4-5 (T200135-05) Soil	Sampled: 02/20/02 00:00	Received	1: 02/20	/02 12:20					
Benzene	ND	5.0	ug/kg	1	2022002	02/20/02	02/20/02	EPA 8260B	
romobenzene	ND	5.0			"	**	**	,,	
Bromochloromethane	ND	5.0				11	и	"	
romodichloromethane	ND	5.0	"	**	"	"		*1	
romoform	ND	5.0		*1	"	H	"	11	
Bromomethane	ND	5.0	"	11	*1	"	"	11	
-Butylbenzene	ND	5.0	11	*	11	"	11	"	
ec-Butylbenzene	17	5.0	н	"	H	"	*	**	
ert-Butylbenzene	ND	5.0	Ħ		"	"	"		
Carbon tetrachloride	ND	5.0	P			11	,	**	
Chlorobenzene	ND	5.0	"			n		11	
Chloroethane	ND	5.0		"	"	**	44	"	
	ND	5.0	"	**	**	ıı .	**	"	
hlorotom		5.0		**	41	(1	H		
	ND	0.0							
Chloroform Chloromethane 2-Chlorotoluene			11	n	11	"	"		
	ND ND ND	5.0 5.0	11	pp pp	41	"	**	11	

SunStar Laboratories, Inc.

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La Bauchine

Project Number: 59-00115133.01 Project Manager: Mauricio Escobar

Reported:

2/25/02

Volatile Organic Compounds by EPA Method 8260B

SunStar Laboratories, Inc.

				oratori					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B4-5 (T200135-05) Soil Sampled	: 02/20/02 00:00	Received	1: 02/20	/02 12:20					
1,2-Dibromo-3-chloropropane	ND	5.0	ug/kg	1	2022002	02/20/02	02/20/02	EPA 8260B	
I,2-Dibromoethane (EDB)	ND	5.0	**	H	*11			PP	
Dibromomethane	ND	5.0	**	Ħ	11	"	**	PP	
I,2-Dichlorobenzene	ND	5.0	**	++	**	"		"	
1,3-Dichlorobenzene	ND	5.0	H	**	н	"	**	b)	
1,4-Dichlorobenzene	ND	5.0	"	M	18			,,	
Dichlorodifluoromethane	ND	5.0	11	м	11			**	
1,1-Dichloroethane	ND	5.0	н	н	Ħ	**	4	**	
I,2-Dichloroethane	ND	5.0	11	"	11			**	
I,I-Dichloroethene	ND	5.0	**	44	11			н	
cis-1,2-Dichloroethene	100	5.0	"	"	*1			"	
trans-1,2-Dichloroethene	13	5.0	"	44	"	") •	10	
1,2-Dichloropropane	ND	5.0	"	"	11			11	
1,3-Dichloropropane	ND	5.0		4	**	"	**	Ħ	
2,2-Dichloropropane	ND	5.0	"	"	"		"	11	
1, [-Dichloropropene	ND	5.0			"	,,	**	11	
cis-1,3-Dichloropropene	ND	5.0	"	"	н		"	11	
trans-1,3-Dichloropropene	ND	5.0		"	"		"	11	
Ethylbenzene	36	5.0			"	**	**	"	
Hexachlorobutadiene	ND	5.0		"	44		"	n	
Isopropylbenzene	18	5.0			"		"	"	
p-Isopropyltoluene	ND	5.0			11		"	"	
Methylene chloride	ND	5.0	"	"	11	**		**	
Naphtbalene	150	5.0		н	11	**	"	"	
n-Propylbenzene	20	5.0	"	"	**	41	**	"	
Styrene	ND	5.0		#	,,	#	"		
1,1,2,2-Tetrachloroethane	ND	5.0	"	#	"	**	"		
I,I,1,2-Tetrachloroethane	ND	5.0	"	н	,,	**	11	"	
Tetrachloroethene	ND	5.0	"	н		**	41	"	
Toluene	ND	5.0	"	+	1)		11	**	
I,2,3-Trichlorobenzene	ND	5.0	"	H	"	"	11	"	
1,2,4-Trichlorobenzene	ND	5.0	"	**	"	"	**	"	
I,I,2-Trichloroethane	ND	5.0	ď	**		"	"	41	
1,1,I-Trichloroethane	ND	5.0	"	"	"		ħ	"	
Trichloroethene	ND	5.0	"	10		,	**	**	
Trichlorofluoromethane	ND	5.0	"	н	**		"	"	
1,2,3-Trichloropropane	ND	5.0	"	h		"	**	11	
I,3,5-Trimethylbenzene	ND	5.0	"	н	11	"		11	
1,2,4-Trimethylbenzene	ND	5.0	"	+*	"	"	h	11	
Vinyl chloride	ND	5.0	"	"	"	"	19	11	
m,p-Xylene	ND	5.0	"	н		,,	**	41	

SunStar Laboratories, Inc.

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Leah Beauchaine, Project Manager

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Project: Associated Plating Project Number: 59-00115133.01 Project Manager: Mauricio Escobar

Reported:

2/25/02

Volatile Organic Compounds by EPA Method 8260B

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
B4-5 (T200135-05) Soil	Sampled: 02/20/02 00:00	Received	: 02/20	/02 12:20					
o-Xylene	ND	5.0	ug/kg	1	2022002	02/20/02	02/20/02	EPA 8260B	
Surrogate: Toluene-d8		100 %	81-	-117	"	"	"	"	
Surrogate: 4-Bromofluoro	benzene	102 %	74	-121	"	**	**		
Surrogate: Dibromofluoro		105 %	80-	-120	"	"	"	"	
B3-1.5 (T200135-06) Soil	Sampled: 02/20/02 00:00	Receive	ed: 02/2	20/02 12:2	0				
Вепzепе	ND	5.0	ug/kg	1	2022002	02/20/02	02/20/02	EPA 8260B	
Bromobenzene	ND	5.0	"		"	4		"	
Bromochloromethane	ND	5.0		и		**	#	**	
Bromodichloromethane	ND	5.0	"	41	"	,,			
Bromoform	ND	5.0	**	"	et			44	
Bromomethane	ND	5.0	4			**	"	**	
n-Butylbenzene	9.0	5.0		н	"	**		**	
sec-Butylbenzene	59	5.0	11	11	**		•	+	
tert-Butylbenzene	6.6	5.0	"	"	**		11	"	
Carbon tetrachloride	ND	5.0			"	**	"		
Chlorobenzene	ND	5.0		"	"			**	
Chloroethane	ND	5.0	11	11	#		11	**	
Chloroform	ND	5.0	"	"	**	#	"		
Chloromethane	ND	5.0		u		"	**		
2-Chlorotoluene	ND	5.0	"	"	11		**	11	
4-Chlorotoluene	ND	5.0	**	**	**	**	PP	"	
Dibromochloromethane	ND	5.0	"		"	**			
1,2-Dibromo-3-chloroprop	oane ND	5.0	"	н	"		"	41	
1,2-Dibromoethane (EDB)		5.0	11	41	**	44	**	**	
Dibromomethane	ND	5.0	"	"	**	**		"	
1,2-Dichlorobenzene	ND	5.0					**	*1	
1,3-Dichlorobenzene	ND	5.0	"	"	**	44	û	**	
1,4-Dichlorobenzene	ND	5.0	14	HT	*	#	"		
Dichlorodifluoromethane	ND	5.0		н		**		**	
1,1-Dichloroethane	ND	5.0		ч		**	Ħ	"	
1,2-Dichloroethane	ND	5.0	**	**	44	44	"		
1,1-Dichloroethene	ND	5.0	10	11	**	**	"	**	
cis-1,2-Dichloroethene	ND	5.0	"	"	"		**	**	
trans-1,2-Dichloroethene	ND	5.0				"	k)		
1,2-Dichloropropane	ND	5.0	"	"	11	н		"	
1,3-Dichloropropane	ND	5.0	11	н	"	,,	"	,,	
2,2-Dichloropropane	ND	5.0	"	,,	"		"		
1,1-Dichloropropene	ND	5.0			и	11	**	**	
cis-1,3-Dichloropropene	ND	5.0			11	**	**	16	

SunStar Laboratories, Inc.

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Leah Beauchaine, Project Manager

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Project: Associated Plating
Project Number: 59-00115133.01

Project Manager: Mauricio Escobar

Reported:

2/25/02

Volatile Organic Compounds by EPA Method 8260B SunStar Laboratories, Inc.

	R	eporting			_				
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B3-1.5 (T200135-06) Soil	Sampled: 02/20/02 00:00	Receiv	ed: 02/2	20/02 12:2	0				
trans-1,3-Dichloropropene	ND	5.0	ug/kg	1	2022002	02/20/02	02/20/02	EPA 8260B	
Ethylbenzene	ND	5.0	"		н	"	**		
Hexachlorobutadiene	ND	5.0	**		н	**	**		
Isopropylbenzene	73	5.0	"		"	n	**	**	
p-Isopropyltoluene	ND	5.0	"	"	"	"	н	41	
Methylene chloride	ND	5.0			"		н	41	
Naphthalene	270	5.0	"	"	"	,,	н	H	
n-Propylbenzene	130	5.0		н	*1		n	**	
Styrene	ND	5.0		44	41		n	11	
1,1,2,2-Tetrachloroethane	17	5.0	••	н	**		**	**	
1,1,1,2-Tetrachloroethane	ND	5.0		"	41		n	11	
Tetrachloroethene	ND	5.0		**	***)4	н	**	
Toluene	ND	5.0		41	**		**	PF .	
1,2,3-Trichlorobenzene	ND	5.0		"	11		"	bt .	
1,2,4-Trichlorobenzene	ND	5.0	**	**	11	11	89	**	
1,1,2-Trichloroethane	ND	5.0	•	11	19		"	**	
1,1,1-Trichloroethane	ND	5.0		11	17		1)	"	
Trichloroethene	ND	5.0	"	н	**	**	v		
Trichlorofluoromethane	ND	5.0	**	**	"	64	"		
1,2,3-Trichloropropane	ND	5.0	**	")1	**	"		
1,3,5-Trimethylbenzene	ND	5.0	11	w	"	41	н	•	
I,2,4-Trimethylbenzene	ND	5.0	н	"		n	**	"	
Vinyl chloride	ND	5.0	**		"	**	н	н	
m,p-Xylene	ND	5.0	"	н		**	**	н	
o-Xylene	ND	5.0	**		ч	"	"	Þ	
Surrogate: Toluene-d8		101 %	81-	117	**	"	"	"	
Surrogate: 4-Bromofluorobe	enzene	112%	74-	-121	a	"	"	"	
Surrogate: Dibromofluorom	ethane	110%	80-	120	**	"	,	44	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Project Number: Associated Plating
Project Number: 59-00115133.01
Project Manager: Mauricio Escobar

Reported:

2/25/02

Volatile Organic Compounds by EPA Method 8260B

SunStar Laboratories, Inc.

		SunStar	r Lab	oratori	es, Inc.				
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B3-5 (T200135-07) Soil	Sampled: 02/20/02 00:00	Received	1: 02/20	/02 12:20					
Benzene	ND	5.0	ug/kg	1	2022002	02/20/02	02/20/02	EPA 8260B	
Bromobenzene	ND	5.0	"	41	**	"		11	
Bromochloromethane	ND	5.0	"	41	11		**	"	
Bromodichloromethane	ND	5.0	**	#	**		18	"	
Bromoform	ND	5.0	н	"	"		"		
Bromomethane	ND	5.0	**			11	,,	**	
n-Butylbenzene	ND	5.0				19		41	
sec-Butylbenzene	8.2	5.0		н	11	**	*1	"	
tert-Butylbenzene	ND	5.0		11	"		19		
Carbon tetrachloride	ND	5.0	**	H	**	**	"	**	
Chlorobenzene	ND	5.0	11	"	"	41		44	
Chloroethane	ND	5.0	"	*	"	"	**	н	-
Chloroform	ND	5.0			Ħ		41	**	
Chloromethane	ND	5.0		17	"		"		4
2-Chlorotoluene	ND	5.0	*1	"	"	41	n	**	
4-Chlorotoluene	ND	5.0	**) *	"	"		н	5
Dibromochloromethane	ND	5.0	н		"	"	81	"	1
1,2-Dibromo-3-chloropropa	ane ND	5.0		"	11	"	**	"	
1,2-Dibromoethane (EDB)	ND	5.0		11	"		,,	"	
Dibromomethane	ND	5.0	"	*	"	11		н	
1,2-Dichlorobenzene	ND	5.0	**		"	"	**	"	-
1,3-Dichlorobenzene	ND	5.0	"	н	+1		11-	"	
1,4-Dichlorobenzene	ND	5.0		11	11	"	"	1*	
Dichlorodifluoromethane	ND	5.0	"	н	"	11	"	н	
1,1-Dichloroethane	ND	5.0	**		"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	11	**	"	**		
1,1-Dichloroethene	ND	5.0	"	**	**	44	'n	14	
cis-1,2-Dichloroethene	5.3	5.0	"	"	"	++	"		
trans-1,2-Dichloroethene	ND	5.0	11			,,		"	-
1,2-Dichloropropane	ND	5.0	"	"	**	,,	11	"	
1,3-Dichloropropane	ND	5.0		*1			" n		
2,2-Dichloropropane	ND	5.0		**		**	"		
1,1-Dichloropropene	ND	5.0		"					
cis-1,3-Dichloropropene	ND	5.0	11	,	11		11		
trans-1,3-Dichloropropene	ND	5.0	.,	"		11	ı,		
Ethylbenzene	ND	5.0		11	,,	11			
Hexachlorobutadiene	ND	5.0	"))	"	11	
Isopropylbenzene	21	5.0	11		#	"	н	"	-
p-Isopropyltoluene	ND	5.0	11		.,	"		н	-
Methylene chloride	ND	5.0	.,		,,	11	"	u	
Naphthalene	68	5.0		17	,-	,.	_	•	

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Leah Beauchaine, Project Manager

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Project: Associated Plating Project Number: 59-00115133.01 Project Manager: Mauricio Escobar

Reported:

2/25/02

Volatile Organic Compounds by EPA Method 8260B SunStar Laboratories, Inc.

		Reporting	TT 1:	Dilesia	D ()	D		3.6-41 - 3	
Analyte	Result		Units	Dilution	Batch	Prepared	Analyzed	Method	No
B3-5 (T200135-07) Soil Sai	mpled: 02/20/02 00:00	Received	1: 02/20	/02 12:20					
n-Propylbenzene	26	5.0	ug/kg	I	2022002	02/20/02	02/20/02	EPA 8260B	
Styrene	ND	5.0	.,	"	н		44		
1, I, 2, 2-Tetrachloroethane	ND	5.0	"		"	**	11		
1,1,1,2-Tetrachloroethane	ND	5.0	**	"			11		
Tetrachloroethene	ND	5.0	,,	и	н	44	**	"	
Toluene	ND	5.0	**	"	"	**	"		
1,2,3-Trichlorobenzene	ND	5.0	**	,,		44	"	*1	
I,2,4-Trichlorobenzene	ND	5.0	"	"	41	**	"	11	
1,1,2-Trichloroethane	ND	5.0	**	и		41	"	41	
I,1,1-Trichloroethane	ND	5.0	**		"	"	11	**	
Trichloroethene	ND	5.0	11	"	"	"	**	*1	
Prichlorofluoromethane	ND	5.0	11		"	44	"	41	
1,2,3-Trichloropropane	ND	5.0	**		**	II .	"	31	
1,3,5-Trimethylbenzene	ND	5.0	**		11	**	"	н	
1,2,4-Trimethylbenzene	ND	5.0	"		#	**		**	
/inyl chloride	ND	5.0	**	н	††	"			
n,p-Xylene	ND	5.0	**		17	**		b	
-Xylene	ND	5.0	"		**	**)=	
Surrogate: Toluene-d8		102 %	81-	-117	n	"	"	,,	
Surrogate: 4-Bromofluoroben	zene	102 %	74	-121	"	**	"	44	
urrogate: Dibromofluoromet		106 %		-120	"	"	"	44	
311-0.5 (T200135-08) Soil		Ю Recei	ved: 02	/20/02 12:	20				
Benzene	ND	5.0	ug/kg	1	2022002	02/20/02	02/20/02	EPA 8260B	
Bromobenzene	ND	5.0	"	**	н	"	"	"	
Bromochloromethane	ND	5.0	"	13	**	**			
Bromodichloromethane	ND	5.0		,,	11	,,	H	**	
Bromoform	ND	5.0	4	**	rr		11	**	
Bromomethane	ND	5.0	"	,,	**		*1	**	
n-Butylbenzene	ND	5.0	"		,,		**	н	
ec-Butylbenzene	ND	5.0	**	,,	"	4	,,	**	
ert-Butylbenzene	ND	5.0				**	н	,,	
Carbon tetrachloride	ND	5.0	")	**	,,	,,	
Chlorobenzene	ND	5.0	**		,,	14	,,	,,	
Chloroethane	ND	5.0	"			н			
Chloroform	ND	5.0	"		,	11	,	,,	
Chloromethane	ND ND	5.0	**			π			
	ND ND		"			**			
-Chlorotoluene		5.0	"						
-Chlorotoluene	ND	5.0				,,		**	
Dibromochloromethane	ND	5.0	41		"	,,	"	**	

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Leah Beauchaine, Project Manager

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Project: Associated Plating Project Number: 59-00115133.01 Project Manager: Mauricio Escobar

Reported:

2/25/02

Volatile Organic Compounds by EPA Method 8260B

SunStar Laboratories, Inc.

		_			es, mc.		<u> </u>		
Analyte	Result	porting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B11-0.5 (T200135-08) Soil	Sampled: 02/20/02 00:00	Recei	ved: 02	/20/02 12:	20	-			
1,2-Dibromo-3-chloropropane	. ND	5.0	ug/kg	1	2022002	02/20/02	02/20/02	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	5.0	"	**		**	"	,,	
Dibromomethane	ND	5.0	"		"	"	**	"	
1,2-Dichlorobenzene	ND	5.0	**	"	11			"	
1,3-Dichlorobenzene	ND	5.0	10		"		++	rr	
1,4-Dichlorobenzene	ND	5.0	"	11	**	4*			Ī
Dichlorodifluoromethane	ND	5.0	**	**		79			
1,1-Dichloroethane	ND	5.0		**	")1			
1,2-Dichloroethane	ND	5.0	"		#		**	"	
1,1-Dichloroethene	ND	5.0	11	"	**	44	**	**	
cis-1,2-Dichloroethene	72	5.0	"	**		41	"		1
trans-1,2-Dichloroethene	5.2	5.0	19	n	"	"	**	11	
1,2-Dichloropropane	ND	5.0		*	11		41	+	- 7
1,3-Dichloropropane	ND	5.0	11		**	"	,,	"	- 1
2,2-Dichloropropane	ND	5.0	н	*1	h	**		"	
1,1-Dichloropropene	ND	5.0	"	**	"	"	"	ħ	
cis-1,3-Dichloropropene	ND	5.0			"		++	**	
trans-1,3-Dichloropropene	ND	5.0	"	"	"	**	**		-
Ethylbenzene	ND	5.0	**		"	4+		"	-
Hexachlorobutadiene	ND	5.0	**	**	"	11		#	
lsopropylbenzene	ND	5.0		n	"		17	"	4
p-Isopropyltoluene	ND	5.0		"	Fr	"			
Methylene chloride	ND	5.0	#1	*	"	19		"	
Naphthalene	ND	5.0	**	н	"		41	11	
п-Propylbenzene	ND	5.0		n	**		"	"	
Styrene	ND	5.0	"	"		"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	Ħ	*1	"	*	44	"	
1,1,1,2-Tetrachloroethane	ND	5.0	"	11	4		**	rr	
Tetrachloroethene	ND	5.0	"	"	41		"	,,	
Toluene	ND	5.0			**	41			
1,2,3-Trichlorobenzene	ND	5.0	"		"	**		11	
1,2,4-Trichlorobenzene	ND	5.0	н	**	"	"	11	н	
1,1,2-Trichloroethane	ND	5.0	.,	**	44		"	"	-
1,1,1-Trichloroethane	ND	5.0	,,		+*	11		"	
Trichloroethene	9.1	5.0		"	**	19	**	"	
Trichlorofluoromethane	ND	5.0	"	"		"	*	19	
1,2,3-Trichloropropane	ND	5.0	**	11	41			"	
1,3,5-Trimethylbenzene	ND	5.0	"	,,	**	44	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"		**	**	11	н	
Vinyl chloride	54	5.0	"	"		"	14	**	
m,p-Xylene	ND	5.0	44	"	"	"	"	**	
									-

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Leah Beauchaine, Project Manager

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Project: Associated Plating Project Number: 59-00115133.01 Project Manager: Mauricio Escobar

Reported:

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Volatile Organic Compounds by EPA Method 8260B

SunStar Laboratories, Inc.

Analyte	Result	eporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B11-0.5 (T200135-08) Soil	Sampled: 02/20/02 00:00) Recei	ved: 02	/20/02 12:	20				_
o-Xylene	ND	5.0	ug/kg	1	2022002	02/20/02	02/20/02	EPA 8260B	
Surrogate: Toluene-d8		101 %	81-	117	"	"	"	"	
Surrogate: 4-Bromofluorob	enzene	97.8 %	74.	121	**	"	**	"	
Surrogate: Dibromofluorom		104 %	80-	120	"	н	24	"	
B11-5 (T200135-09) Soil		Receive	ed: 02/2	0/02 12:20	0				
Benzene	ND	5.0	ug/kg	1	2022002	02/20/02	02/20/02	EPA 8260B	
Bromobenzene	ND	5.0	n .	41	44		**		
Bromochloromethane	ND	5.0		11	**			"	
Bromodichloromethane	ND	5.0		#	41			**	
Bromoform	ND	5.0		**	71		**	44	
Bromomethane	ND	5.0		"	**	"	41	11	
n-Butylbenzene	ND	5.0	**	**	"	41	-11	H	
sec-Butylbenzene	ND	5.0	"		**	**	1+	,,	
tert-Butylbenzene	ND	5.0	**		**	*1	PF	"	
Carbon tetrachloride	ND	5.0	**		"	**	"		
Chlorobenzene	ND	5.0	4τ		ti.	19			
Chloroethane	ND	5.0	++	ч				R	
Chloroform	ND	5.0	++	**	"	**		"	
Chloromethane	ND	5.0	"	11	"		**	11	
2-Chlorotoluene	ND	5.0	,,	19	**	44	н	11	
4-Chlorotoluene	ND	5.0		**	"	**	11	"	
Dibromochloromethane	ND	5.0	**		"	41	**		
1,2-Dibromo-3-chloropropa	ne ND	5.0	**	**	"	**	"	**	
1,2-Dibromoethane (EDB)	ND	5.0	11		"	**		41	
Dibromomethane	ND	5.0	**	11	11		"	>1	
1,2-Dichlorobenzene	ND	5.0	**	**	19	41	н		
1,3-Dichlorobenzene	ND	5.0	"	**	"	41	**	**	
1,4-Dichlorobenzene	ND	5.0	**	"	"	ít.	"	44	
Dichlorodifluoromethane	ND	5.0				"		**	
1,1-Dichloroethane	ND	5.0			"	"		Pr .	
1,2-Dichloroethane	ND	5.0	н		"	**	**	"	
I,I-Dichloroethene	ND	5.0		и	41		**		
cis-1,2-Dichloroethene	ND	5.0	**	ч	1*		11		
trans-1,2-Dichloroethene	ND	5.0	"	11	**	44	i)	**	
1,2-Dichloropropane	ND	5.0	"	14	"	**	H	**	
1,3-Dichloropropane	ND	5.0	10	*	"	11	"	**	
2,2-Dichloropropane	ND	5.0	H	,,		**	**	11	
1,1-Dichloropropene	ND	5.0	17	**	"	17	· ·	**	
cis-1,3-Dichloropropene	ND	5.0	"		n	"	"	"	

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Project: Associated Plating Project Number: 59-00115133.01 Project Manager: Mauricio Escobar

Reported:

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Volatile Organic Compounds by EPA Method 8260B

SunStar Laboratories, Inc.

Analyte	R Result	eporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
						1 Ichared	Allalyzed	MICHIOA	140(62
B11-5 (T200135-09) Soil	Sampled: 02/20/02 00:00	Receive	:d: 02/2	0/02 12:20	0				
trans-1,3-Dichloropropene	ND	5.0	ug/kg	1	2022002	02/20/02	02/20/02	EPA 8260B	
Ethylbenzene	ND	5.0	н		"	"	**		
Hexachlorobutadiene	ND	5.0		"	"	"	19		
Isopropylbenzene	ND	5.0		#	н	**	"	11	
p-Isopropyltoluene	ND	5.0	**	v		**		PF .	
Methylene chloride	ND	5.0		,,	p	**		"	
Naphthalene	ND	5.0	11				**		
n-Propylbenzene	ND	5.0	**	"	44	ч	**	**	
Styrene	ND	5.0	"	11	+	**	"	11	
1,1,2,2-Tetrachloroethane	ND	5.0		"	**	н		rr ·	
1,1,1,2-Tetrachloroethane	ND	5.0	"				**	,,	
Tetrachloroethene	ND	5.0	11	"	**	"	H	**	
Toluene	ND	5.0	**	11	**	11		н	
1,2,3-Trichlorobenzene	ND	5.0		"	"	,,	"		
1,2,4-Trichlorobenzene	ND	5.0					**		
1,1,2-Trichloroethane	ND	5.0	"		"	**	*	**	
1,1,1-Trichloroethane	ND	5.0	**	"	41	41		10	
Trichloroethene	ND	5.0	**	**	"	"	**		
Trichlorofluoromethane	ND	5.0	"	*†		,,	**		
1,2,3-Trichloropropane	ND	5.0		"			rt	44	
1,3,5-Trimethylbenzene	ND	5.0			**	**	,,	11	
1,2,4-Trimethylbenzene	ND	5.0	11	"	н	**		**	
Vinyl chloride	67	5.0	"	11			"	**	
m,p-Xylene	ND	5.0		n	н		11	"	
o-Xylene	ND	5.0	н			"	17	**	
Surrogate: Toluene-d8		100 %	81-	117	**	"	"	"	
Surrogate: 4-Bromofluorob	enzene	96.8 %		121	"	"	"	"	
Surrogate: Dibromofluorom		102 %		120		μ	**	**	

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Project Number: 59-00115133.01 Project Manager: Mauricio Escobar

Reported:

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Volatile Organic Compounds by EPA Method 8260B

SunStar Laboratories, Inc.

Bromobenzene ND 5.0 "	Method Note
Benzene 12 5.0 ug/kg 1 2022002 02/20/02 02/20/02 E Bromobenzene ND 5.0 "	» " " " " " " " " " "
Bromobenzene ND 5.0 "	» " " " " " " " " " "
Bromochloromethane ND 5.0 "	" " " " " " " " " " " "
Bromodichloromethane ND 5.0 "	n n n n
Bromoform ND 5.0 " <t< td=""><td>" " " " " " "</td></t<>	" " " " " " "
Bromomethane ND 5.0 "	" " " " "
n-Butylbenzene ND 5.0 " " " " " " " sec-Butylbenzene 25 5.0 " " " " " "	n n
sec-Butylbenzene 25 5.0 " " " "	"
•	"
ATT CO II	
tert-Butylbenzene ND 5.0 " " " " "	>>
Carbon tetrachloride ND 5.0 " " " " "	
Chlorobenzene ND 5.0 " " " " "	Pt .
Chloroethane ND 5.0 " " " " "	**
Chloroform ND 5.0 " " " " "	"
Chloromethane ND 5.0 " " " " "	n
2-Chlorotoluene ND 5.0 " " " " "	"
4-Chlorotoluene ND 5.0 " " " " "	
Dibromochloromethane ND 5.0 " " " " "	"
1,2-Dibromo-3-chloropropane ND 5.0 " " " " "	
I,2-Dibromoethane (EDB) ND 5.0 " " " "	,,
Dibromomethane ND 5.0 " " " "	II .
1,2-Dichlorobenzene ND 5.0 " " " " "	"
1,3-Dichlorobenzene ND 5.0 " " " " "	"
1,4-Dichlorobenzene ND 5.0 " " " "	44
Dichlorodifluoromethane ND 5.0 " " " "	"
1,1-Dichloroethane ND 5.0 " " " "	н
1,2-Dichloroethane ND 5.0 " " " "	"
I,1-Dichloroethene ND 5.0 " " " "	
cis-1,2-Dichloroethene 47 5.0 " " " "	44
trans-1,2-Dichloroethene ND 5.0 " " " "	
1,2-Dichloropropane ND 5.0 " " " " "	ч
I,3-Dichloropropane ND 5.0 " " " "	**
2,2-Dichloropropane ND 5.0 " " " "	**
1,1-Dichloropropene ND 5.0 " " " "	4
cis-1,3-Dichloropropene ND 5.0 " " " "	41
trans-1,3-Dichloropropene ND 5.0 " " " " "	ft
Ethylbenzene 79 5.0 " " " " "	n
Hexachlorobutadiene ND 5.0 " " " "	н
Isopropylbenzene 75 5.0 " " " "	"
p-Isopropyltoluene ND 5.0 " " " "	"
Methylene chloride ND 5.0 " " " " "	*
Naphthalene 410 5.0 " " " " "	

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Leah Beauchaine, Project Manager

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Project: Associated Plating Project Number: 59-00115133.01 Project Manager: Mauricio Escobar

Reported:

2/25/02

Volatile Organic Compounds by EPA Method 8260B

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	No
B11-7 (T200135-10) Soil Sa	mpled: 02/20/02 00:00	Receive	d: 02/2	0/02 12:2	0				
n-Propylbenzene	110	5.0	ug/kg	t	2022002	02/20/02	02/20/02	EPA 8260B	
Styrene	ND	5.0	"				11	"	
1,1,2,2-Tetrachloroethane	ND	5.0	*	"		**	**	"	
1,1,1,2-Tetrachloroethane	ND	5.0		11	**	44			
Fetrachloroethene	ND	5.0	н	**	**	79	•	11	
Foluene -	ND	5.0	**	**			"	**	
1,2,3-Trichlorobenzene	ND	5.0					71	"	
1,2,4-Trichlorobenzene	ND	5.0		"	"	11			
1,1,2-Trichloroethane	ND	5.0	11	n	H	**	4	44	
1,1,1-Trichloroethane	ND	5.0	**		"	ш	"	**	
frichloroethene	ND	5.0	"			ч	n	,,	
Prichlorofluoromethane	ND	5.0		41	"	41			
1,2,3-Trichloropropane	ND	5.0	"	**	**	"	"	11	
1,3,5-Trimethylbenzene	ND	5.0	**	,,			11		
1,2,4-Trimethylbenzene	ND	5.0			"	и	"		
Vinyl chloride	ND	5.0		**	**	"	"	11	
n,p-Xylene	ND	5.0	*1	**	»		"	"	
-Xylene	ND	5.0	**		,				
Surrogate: Toluene-d8	- 122	100 %	ΩI	117		"	,,	27	
_	an a	105 %		121	"	,,	"	,,	
Surrogate: 4-Bromofluorobens					,,	,,	"	"	
Surrogate: Dibromofluorometi	nane	114 %	80-	120					
312-0.5 (T200135-11) Soil	Sampled: 02/20/02 00:0	0 Recei	ved: 02/	20/02 12:	20				
Benzene	ND	5.0	ug/kg	1	2022002	02/20/02	02/20/02	EPA 8260B	
Bromobenzene	ND	5.0	"	"		44			
Bromochloromethane	ND	5.0		11	**	н	и	41	
Bromodichloromethane	ND	5.0	"	**	P	ıı .	**		
Bromoform	ND	5.0	- 01		v	и	"	"	
Bromomethane	ND	5.0	**	"	"	"		**	
n-Bntylbenzene	ND	5.0		#	**	"	11	н	
ec-Butylbenzene	ND	5.0	"	"	"	p	"		
ert-Butylbenzene	ND	5.0	#		"	44	"	44	
Carbon tetrachloride	ND	5.0	**	"	"	Ħ	44	**	
Chlorobenzene	ND	5.0		11	41	II.	"		
Chloroethane	ND	5.0	**	"	,,	4	"	**	
Chloroform	ND	5.0	**			"	"	**	
Chloromethane	ND	5.0			"	H	*		
-Chlorotoluene	ND	5.0	**	**	11	D		**	
-Chlorotoluene	ND	5.0		**	**	и	"	17	
Dibromochloromethane	ND	5.0	11		**	"	11	и	

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Project: Associated Plating Project Number: 59-00115133.01 Project Manager: Mauricio Escobar

Reported:

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Volatile Organic Compounds by EPA Method 8260B SunStar Laboratories, Inc.

<u> </u>			Lau	oratori	cs, inc.				
Analyte	Result	porting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B12-0.5 (T200135-11) Soil	Sampled: 02/20/02 00:00	Recei	ved: 02	/20/02 12:	20				
1,2-Dibromo-3-chloropropano	e ND	5.0	ug/kg	1	2022002	02/20/02	02/20/02	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	5.0	"	**	11				
Dibromomethane	ND	5.0	++		Ħ	D	"		
1,2-Dichlorobenzene	ND	5.0	"	"	н	"		"	
1,3-Dichlorobenzene	ND	5.0		μ	"		"	"	
1,4-Dichlorobenzene	ND	5.0			"	**	+1	*1	
Dichlorodifluoromethane	ND	5.0	"		"	н	**		
1,1-Dichloroethane	ND	5.0			"	**	>9	"	
1,2-Dichloroethane	ND	5.0	*		**	*1	**	,,	
1,1-Dichloroethene	ND	5.0	"		"	**	"	>>	
cis-1,2-Dichloroethene	22	5.0			**	*1	**	"	
trans-1,2-Dichloroethene	ND	5.0		"	"	11		35	
1,2-Dichloropropane	ND	5.0	"	"	"	**			
1,3-Dichloropropane	ND	5.0	"	"	"	**		и	
2,2-Dichloropropane	ND	5.0		"	"	,,	4		
1,I-Dichloropropene	ND	5.0		41	"	н	**		
cis-1,3-Dichloropropene	ND	5.0		**	"			"	
trans-1,3-Dichloropropene	ND	5.0	"	11	41	"	**	**	
Ethylbenzene	ND	5.0		"	"	**	"	"	
Hexachlorobutadiene	ND	5.0	**	**	#1		11	11	
Isopropylbenzene	ND	5.0	"	"	*	14	**	>>	
p-Isopropyltoluene	ND	5.0	**	**	"	"	**	"	
Methylene chloride	ND	5.0	++			**		**	
Naphthalene	ND	5.0	"	"		**	••	**	
n-Propylbenzene	ND	5.0	"		"	**	**	11	
Styrene	ND	5.0	"	*1	11		**	**	
1,1,2,2-Tetrachloroethane	ND	5.0		11	11	**	"		
1,1,1,2-Tetrachloroethane	ND	5.0	"	**	"	**			
Tetrachloroethene	430	5.0		**	*	44		**	
Toluene	ND	5.0	"	**	**	11		"	
1,2,3-Trichlorobenzene	ND	5.0		"		**	**	**	
1,2,4-Trichlorobenzene	ND	5.0	"	p	"	"	**	at .	
1,1,2-Trichloroethane	ND	5.0	"			"	11	**	
1,1,1-Trichloroethane	ND	5.0	11		"	11	"	"	
Trichloroethene	72	5.0	41		н	"	h	**	
Trichlorofluoromethane	ND	5.0	11		"		**		
1,2,3-Trichloropropane	ND	5.0	11		**	"	"		
1,3,5-Trimethylbenzene	ND	5.0	+*	**	"	н	H	44	
1,2,4-Trimethylbenzene	ND	5.0	+*	**	н	"	"	44	
Vinyl chloride	ND	5.0	**	41	19	41		11	
m,p-Xylene	ND	5.0	**	**	"	**	"	H	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Project: Associated Plating Project Number: 59-00115133.01

Project Manager: Mauricio Escobar

Reported:

2/25/02

Volatile Organic Compounds by EPA Method 8260B

SunStar Laboratories, Inc.

				OX ALOI I	22, 2				
Analyte	-	orting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B12-0.5 (T200135-11) Soil	Sampled: 02/20/02 00:00	Recei	ved: 02	/20/02 12:	20				
o-Xylene	ND	5.0	ug/kg	1	2022002	02/20/02	02/20/02	EPA 8260B	
Surrogate: Toluene-d8	99	9.8%	81-	-117	"	"	,,	"	1
Surrogate: 4-Bromofluoroben	zene 9	8.0 %	74-	-121	*	**	"	"	
Surrogate: Dibromofluorome		02 %	80-	120	**	27	"	**	
B212-0.5 (T200135-12) Soil	Sampled: 02/20/02 00:00	Rece	eived: 0	2/20/02 12	2:20				
Benzene	ND	5.0	ug/kg	ī	2022002	02/20/02	02/20/02	EPA 8260B	
Bromobenzene	ND	5.0	,,			н	**		
Bromochloromethane	ND	5.0	**	"		77	н		
Bromodichloromethane	ND	5.0		11	**	**	"	11	
Bromoform	ND	5.0	**	"	**			**	
Bromomethane	ND	5.0	**		**	41	**		1
n-Butylbenzene	ND	5.0	,,	"		,,	,,	*1	
sec-Butylbenzene	ND	5.0		11	11			H	-
tert-Butylbenzene	ND	5.0	"	++	**		**		
Carbon tetrachloride	ND	5.0	**	,,	**	41	11	**	- 1
Chlorobenzene	ND	5.0	**			**	"	**	
Chloroethane	ND	5.0			и	,,		**	
Chloroform	ND	5.0		**	**				-
Chloromethane	ND	5.0		**	**	41	11		
2-Chlorotoluene	ND	5.0	H		"	17	"	**	1
4-Chlorotoluene	ND	5.0	"	"		**		P8	
Dibromochloromethane	ND	5.0	,,	14					
I,2-Dibromo-3-chloropropane		5.0		TI	44	**	44		
1,2-Dibromoethane (EDB)	ND	5.0	44	,,	**	41	11	**	
Dibromomethane	ND	5.0	+		**	**		**	
1,2-Dichlorobenzene	ND	5.0	,,					,,	
1,3-Dichlorobenzene	ND	5.0		**			**	**	
1,4-Dichlorobenzene	ND	5.0		**	11	**	**		
Dichlorodifluoromethane	ND	5.0	"	,,	**	+1	,,	"	ſ
1,1-Dichloroethane	ND	5.0	,,			,,		,,	
	ND	5.0			**				
1,2-Dichloroethane	ND ND	5.0		"			"	**	100
1,1-Dichloroethene cis-1,2-Dichloroethene	20	5.0		11	"	**	**	**	
trans-1,2-Dichloroethene	ND	5.0	**	,,	11	**	,,	,,	-
	ND ND	5.0	14	,,	,,	,,			
1,2-Dichloropropane	ND	5.0	,,				**	**	
1,3-Dichloropropane	ND ND	5.0	,,			**	**	**	1
2,2-Dichloropropane	ND	5.0		"	"	*	"	,,	
1,1-Dichloropropene		5.0	**	**	H	,,	и		-
cis-1,3-Dichloropropene	ND	3.0		**					

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Leah Beauchaine, Project Manager

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Project: Associated Plating
Project Number: 59-00115133.01

Project Manager: Mauricio Escobar

Reported:

2/25/02

Volatile Organic Compounds by EPA Method 8260B SunStar Laboratories, Inc.

Analyte	-	orting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B212-0.5 (T200135-12) Soil	Sampled: 02/20/02 00:00	Rece	ived: 0	2/20/02 12	2:20				
trans-1,3-Dichloropropene	ND	5.0	ug/kg	1	2022002	02/20/02	02/20/02	EPA 8260B	
Ethylbenzene	ND	5.0	11	**	11		"		
Hexachlorobutadiene	ND	5.0	Ħ	"	11				
Isopropylbenzene	ND	5.0	"	"	"	**	"	**	
p-Isopropyltoluene	ND	5.0	1)		"	14	**	41	
Methylene chloride	ND	5.0			"	11	+1	н	
Naphthalene	16	5.0				**	"		
n-Propylbenzene	ND	5.0		"	"	"	n	,,	
Styrene	ND	5.0	"	**	"	н			
1,1,2,2-Tetrachloroethane	ND	5.0		**	"	ts		,,	
1,1,1,2-Tetrachloroethane	ND	5.0	"	11		м	"		
Tetrachloroethene	440	5.0	н	H	*	n	"	"	
Toluene	ND	5.0	11	**	"				
1,2,3-Trichlorobenzene	ND	5.0	11	*	11			"	
1,2,4-Trichlorobenzene	ND	5.0	н	"	H		"	**	
1,1,2-Trichloroethane	ND	5.0	PP		"		**	**	
1,1,1-TrichIoroethane	ND	5.0	**	,,		**	41	**	
Trichloroethene	63	5.0	**		"	**	11	"	
Trichlorofluoromethane	ND	5.0	"		"	11	**	14	
1,2,3-Trichloropropane	ND	5.0		н	"	tt	"	PP	
1,3,5-Trimethylbenzene	ND	5.0		**	и	"		"	
1,2,4-Trimethylbenzene	ND	5.0	"	#	н		*		
Vinyl chloride	ND	5.0	"	"	41	я			
m,p-Xylene	ND	5.0	11		"		"	**	
o-Xylene	ND	5.0	***	**	"		11	11	
Surrogate: Toluene-d8	1	00 %	81-	117	**	er	,,	**	
Surrogate: 4-Bromofluoroben	zene 90	8.0 %	74-	-121	"	47	"	,,	
Surrogate: Dibromofluoromet		03 %	80-	120	"	"	"	,,	

SunStar Laboratories, Inc.

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Project: Associated Plating Project Number: 59-00115133.01 Project Manager: Mauricio Escobar

Reported:

2/25/02

Volatile Organic Compounds by EPA Method 8260B

SunStar Laboratories, Inc.

Analyte	Result	Reporting	Units	Dilution	Batch	Draward	Angluzed	Method	Notes
Analyte						Prepared	Analyzed	Method	Notes
B12-5 (T200135-13) Soil S	ampled: 02/20/02 00:00	Receive	ed: 02/2	0/02 12:20)				
Benzene	ND	5.0	ug/kg	1	2022002	02/20/02	02/21/02	EPA 8260B	
Bromobenzene	ND	5.0		"	**	"			
Bromochloromethane	ND	5.0		*1	11				
Bromodichloromethane	ND	5.0	"	11	"	"	*1	"	
Bromoform	ND	5.0	**	**		41	**	н	
Bromomethane	ND	5.0	**	"	"	#	"	**	
n-Butylbenzene	6.9	5.0		11	41	"		"	
sec-Butylbenzene	12	5.0		*1	"		**	41	
tert-Butylbenzene	ND	5.0		#	,,		11	"	
Carbon tetrachloride	ND	5.0	#	"		**	*	н	
Chlorobenzene	ND	5.0	"		4	19		"	
Chloroethane	ND	5.0	"	"	"		f 1	"	
Chloroform	ND	5.0	н	11		41	H	п	
Chloromethane	ND	5.0	11	"	**	r)			
2-Chlorotoluene	ND	5.0	**	"	#1		**		
4-Chlorotoluene	ND	5.0	"			**	Ħ	41	
Dibromochloromethane	ND	5.0		11	u	41		"	
1,2-Dibromo-3-chloropropane	e ND	5.0	"	"	"	"	"		
1,2-Dibromoethane (EDB)	ND	5.0	11	**	#		**	**	
Dibromomethane	ND	5.0	"			**	**	**	
1,2-Dichlorobenzene	ND	5.0		11	"	+1		"	
1,3-Dichlorobenzene	ND	5.0	"	**	**	**	м		
1,4-Dichlorobenzene	ND	5.0	11		**		**	**	
Dichlorodifluoromethane	ND	5.0	rr			44	**	11	
1,1-Dichloroethane	ND	5.0		1 1		H	"	**	
1,2-Dichloroethane	ND	5.0	"	"	11	**			
1,1-Dichloroethene	ND	5.0	"		ь		**	11	
cis-1,2-Dichloroethene	420	5.0	n	*		11	**	**	
trans-1,2-Dichloroethene	150	5.0		41		"	н		
1,2-Dichloropropane	ND	5.0	"	"	**		* "	"	
1,3-Dichloropropane	ND	5.0		"	*		"	"	
2,2-Dichloropropane	ND	5.0	**	**		*1	**	11	
1,1-Dichloropropene	ND	5.0	н	н		37		"	
cis-1,3-Dichloropropene	ND	5.0	**	**	44				
trans-1,3-Dichloropropene	ND	5.0		"	H	"	**	**	
Ethylbenzene	7.7	5.0			11	#	"	11	
Hexachlorobutadiene	ND	5.0	11		"	**		"	
Isopropylbenzene	12	5.0	н	**			11	11	
p-Isopropyltoluene	ND	5.0	"	11	н	**	11	11	
Methylene chloride	ND	5.0	**		11	#		n	
Naphthalene	140	5.0				**		н	

SunStar Laboratories, Inc.

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Leah Beauchaine, Project Manager

Page 28 of

Project: Associated Plating Project Number: 59-00115133.01 Project Manager: Mauricio Escobar

Reported: 2/25/02

Volatile Organic Compounds by EPA Method 8260B

SunStar Laboratories, Inc.

		Reporting			,				
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Not
B12-5 (T200135-13) Soil	Sampled: 02/20/02 00:00	Receive	:d: 02/2	0/02 12:20	0				
n-Propylbenzene	12	5.0	ug/kg	1	2022002	02/20/02	02/21/02	EPA 8260B	
Styrene	ND	5.0	"	Iŧ	н			**	
1,1,2,2-Tetrachloroethane	11	5.0	**	H	**	**		"	
1,1,1,2-Tetrachloroethane	ND	5.0	"	H	41			,	
Tetrachloroethene	ND	5.0	**	**	11	**	44		
Toluene	ND	5.0	"	"	**	41	**		
1,2,3-Trichlorobenzene	ND	5.0	**	**	#	**	**		
1,2,4-Trichlorobenzene	ND	5.0	"	"	+1	11	**		
1,1,2-Trichloroethane	ND	5.0		"	#	**	**	44	
1,1,1-Trichloroethane	ND	5.0	**	**	Ħ	11	**		
Trichloroethene	ND	5.0	"	"	Ħ	#	**	"	
Frichlorofluoromethane	ND	5.0	**	H	н	#	"	"	
1,2,3-Trichloropropane	ND	5.0		"	#	H	"	"	
1,3,5-Trimethylbenzene	ND	5.0	**	n	Ħ	**	*1	**	
1,2,4-Trimethylbenzene	ND	5.0		"	Ħ	**	11	**	
Vinyl chloride	ND	5.0	••	11	**	*	11	**	
n,p-Xylene	ND	5.0		"	**	"	11	**	
o-Xylene	ND	5.0	**	"	"	**	**	44	
Surrogate: Toluene-d8		99.0 %	81-	117	**	"	"	**	
Surrogate: 4-Bromofluorob	enzene	98.2 %	74-	121	"	"	"	"	
Surrogate: Dibromofluorom	nethane	106 %	80-	120	"	,,	"	"	
B12-7 (T200135-14) Soil	Sampled: 02/20/02 00:00	Receive	d: 02/2	0/02 12:20)				
Benzene	ND	5.0	ug/kg	1	2022002	02/20/02	02/21/02	EPA 8260B	
Bromobenzene	ND	5.0	11	11	**	#	**	**	
Bromochloromethane	ND	5.0	н	**	4	"	11	"	
Bromodichloromethane	ND	5.0	"	**	н	**	H	**	
Bromoform	ND	5.0	**	"	.11.	и	**	"	
3romomethane	ND	5.0	"	"	**	"	,,	n	
	ND 35	5.0 5.0	"	"	"	"	"	"	
ı-Butylbenzene	35	5.0							
n-Butylbenzene sec-Butylbenzene					,			**	
ı-Butylbenzene	35 57	5.0 5.0	"	")) ?)	"		44	
n-Butylbenzene sec-Butylbenzene sert-Butylbenzene Carbon tetrachloride	35 57 8.6 ND	5.0 5.0 5.0 5.0	"	" "	1) 1)	11 11		44 44	
n-Butylbenzene sec-Butylbenzene ert-Butylbenzene	35 57 8.6 ND ND	5.0 5.0 5.0 5.0 5.0	"	11 11	1) 1)	11 11		44 44	
n-Butylbenzene sec-Butylbenzene sert-Butylbenzene Carbon tetrachloride Chlorobenzene Chloroethane	35 57 8.6 ND ND ND	5.0 5.0 5.0 5.0 5.0 5.0	"	" " " " " " " " " " " " " " " " " " " "))))))))	11 41 41		** ** ** ** ** **	
n-Butylbenzene sec-Butylbenzene ert-Butylbenzene Carbon tetrachloride Chlorobenzene Chloroethane Chloroform	35 57 8.6 ND ND ND ND	5.0 5.0 5.0 5.0 5.0 5.0 5.0		" " " " " " " " " " " " " " " " " " " "))))))))))))))))))))))))))	11 11 11 11 11 11 11 11 11 11 11 11 11		**	
n-Butylbenzene sec-Butylbenzene sert-Butylbenzene Carbon tetrachloride Chlorobenzene Chloroethane Chloroform Chloromethane	35 57 8.6 ND ND ND ND ND	5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0	" " " " "	11 11 11 11 11 11 11 11) ,, ,, ,,	11 61 11 11 11	11 11 11 11	11 11	
n-Butylbenzene sec-Butylbenzene ert-Butylbenzene Carbon tetrachloride Chlorobenzene Chloroethane Chloroform	35 57 8.6 ND ND ND ND	5.0 5.0 5.0 5.0 5.0 5.0 5.0		11 11 11 11 11 11 11 11 11 11 11 11 11	" " " " " " " "	11 41 41 41 41 41 41	11 11 11 11 11	44 44 44 45 46 41	

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Jest Dauchine

Project Number: Associated Plating
Project Number: 59-00115133.01
Project Manager: Mauricio Escobar

Reported:

2/25/02

Volatile Organic Compounds by EPA Method 8260B SunStar Laboratories, Inc.

	R	Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B12-7 (T200135-14) Soil Sampled:	02/20/02 00:00	Receive	d: 02/2	0/02 12:20)			-	
1,2-Dibromo-3-chloropropane	ND	5.0	ug/kg	l	2022002	02/20/02	02/21/02	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	5.0		I†	PF	"	11	17	
Dibromomethane	ND	5.0	"	н		**	PP		
1,2-Dichlorobenzene	ND	5.0	"		**	**		"	
1,3-Dichlorobenzene	ND	5.0		11	11		**	•	
1,4-Dichlorobenzene	ND	5.0		**			**	"	
Dichlorodifluoromethane	ND	5.0	11	"	"	**	"	"	
1,1-Dichloroethane	ND	5.0		**	**	,,		н	
1,2-Dichloroethane	ND	5.0	44	11	19		11		
1,1-Dichloroethene	ND	5.0	"			41	bt .	4	
cis-1,2-Dichloroethene	300	5.0	н		44	**	p	**	
trans-1,2-Dichloroethene	150	5.0	"	11	17	и	"		
1,2-Dichloropropane	ND	5.0	11	"		**	H		
1,3-Dichloropropane	ND	5.0	"		**	,,		n	
2,2-Dichloropropane	ND	5.0	44	11	н		11	n	
1,1-Dichloropropene	ND	5.0	**	**		41		"	
cis-1,3-Dichloropropene	ND	5.0	"		"	**		**	
trans-1,3-Dichloropropene	ND	5.0	"	#	n		11		
Ethylbenzene	24	5.0	"	"		**	**	p	
Hexachlorobutadiene	ND	5.0	**		н	,,		,,	
Isopropylbenzene	51	5.0		11	"		"	**	
p-Isopropyltoluene	16	5.0	**	**		17		"	
Methylene chloride	ND	5.0	"	н	**	,,	"		
Naphthalene	400	5.0	"	*1	*		Ħ	**	
n-Propylbenzene	57	5.0	*1			47	"	**	
Styrene	ND	5.0	**	"	1*			"	
1, I, 2, 2-Tetrachloroethane	ND	5.0		+>	"	"	"	"	
I,1,1,2-Tetrachloroethane	ND	5.0	rt .		"	**	p	*1	
Tetrachloroethene	ND	5.0	**	н	11	"	"	"	
Toluene	ND	5.0		11	"	4	11	"	
1,2,3-Trichlorobenzene	ND	5.0	1†		ч	+1	1)	71	
1,2,4-Trichlorobenzene	ND	5.0	и	"	41	"	"	,	
1,1,2-Trichloroethane	ND	5.0		н	"	41	rr	41	
1,1,1-Trichloroethane	ND	5.0	**	п	**	**	1)	> P	
Trichloroethene	ND	5.0	"	н	11	н	"	"	
Trichlorofluoromethane	ND	5.0	**	"	н	"	H	"	
1,2,3-Trichloropropane	ND	5.0	"	и	"	**	"	n	
1,3,5-Trimethylbenzene	ND	5.0	**		§1	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0		41	"	**	"	*1	
Vinyl chloride	ND	5.0	"		"	r	a		
m,p-Xylene	ND	5.0	**		**		"	**	

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Least Bauchine

Project: Associated Plating Project Number: 59-00115133.01

Project Manager: Mauricio Escobar

Reported: 2/25/02

Volatile Organic Compounds by EPA Method 8260B

SunStar Laboratories, Inc.

	7.7	unyun	Lat	oratori					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B12-7 (T200135-14) Soil Sampled:	02/20/02 00:00	Receive	d: 02/2	20/02 12:20)				
o-Xylene	ND	5.0	ug/kg	1	2022002	02/20/02	02/21/02	EPA 8260B	
Surrogate: Toluene-d8		99.0 %	81	-117	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		114 %	74	-121	"	"	"	"	
Surrogate: Dibromofluoromethane		104 %		-120	"	и	"	"	
Rinsate 022002 (T200135-15) Water	Sampled: 02/2	20/02 00:			/20/02 12:	20			
Benzene	ND	5.0	ug/l	ı	2022003	02/20/02	02/21/02	EPA 8260B	
Bromobenzene	ND	5.0	"		11	"	11	11	
Bromochloromethane	ND	5.0	"	,,	**	н	#	**	
Bromodichloromethane	ND	5.0	H		**	"	**	#	
Bromoform	ND	5.0	"	bs	**	n	**	H	
Bromomethane	ND	5.0	**		11	"	"	H	
n-Butylbenzene	ND	5.0	"	h	н		+*	"	
sec-Butylbenzene	ND	5.0		"	н	"	**	"	
tert-Butylbenzene	ND	5.0	"	**	17		,,	n	
Carbon tetrachloride	ND	5.0	v		*		n	,,	
Chlorobenzene	ND	5.0	"		,,		"		
Chloroethane	ND	5.0	v	и	"	"		"	
Chloroform	ND	5.0	"		**				
Chloromethane	ND	5.0	**		"				
2-Chlorotoluene	ND	5.0			,,		м		
4-Chlorotoluene	ND	5.0		"		41		"	
Dibromochloromethane	ND	5.0		"	,,	**	**	**	
1,2-Dibromo-3-chloropropane	ND	5.0		"	"	11	41	I+	
1,2-Dibromoethane (EDB)	ND	5.0	"	н	*	**	19	**	
Dibromomethane	ND	5.0	"	н	11	*	"		
1,2-Dichlorobenzene	ND	5.0	11	,,	#		**		
1,3-Dichlorobenzene	ND	5.0	11	"	**				
1,4-Dichlorobenzene	ND	5.0	"	,,	n			N.	
Dichlorodifluoromethane	ND	5.0	14	"	**			41	
1,1-Dichloroethane	ND	5.0	11	,,	"	44		11	
1,2-Dichloroethane	ND	5.0	**		**		44	11	
1,1-Dichloroethene	ND	5.0	11		v	44	41	**	
cis-1,2-Dichloroethene	ND	5.0	#			61	**	н	
trans-1,2-Dichloroethene	ND	5.0	n			11	**	"	
1,2-Dichloropropane	ND	5.0	н			44	+*	н	
1,3-Dichloropropane	ND	5.0	"	"		**	,,		
2,2-Dichloropropane	ND	5.0	"			**	"		
1,1-Dichloropropene	ND	5.0	"	"		**	"		
cis-1,3-Dichloropropene	ND	5.0	н		t4	#		**	
ore the Transport of the	•								

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Project: Associated Plating Project Number: 59-00115133.01

Project Manager: Mauricio Escobar

Reported:

2/25/02

Volatile Organic Compounds by EPA Method 8260B

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes	
Rinsate 022002 (T200135-15) Water Sampled: 02/20/02 00:00 Received: 02/20/02 12:20										
trans-1,3-Dichloropropene	ND	5.0	ug/l	1	2022003	02/20/02	02/21/02	EPA 8260B		
Ethylbenzene	ND	5.0	**	"			"	н		
Hexachlorobutadiene	ND	5.0	*	11		**		"		
Isopropylbenzene	ND	5.0		"	**	41	**			
p-Isopropyltoluene	ND	5.0	"		19	"	**	"		
Methylene chloride	ND	5.0	41	"	"	b	H	н		
Naphthalene	ND	5.0	**	"	"			**		
n-Propylbenzene	ND	5.0	**	Ħ		"				
Styrene	ND	5.0		"	11	**	84			
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	,,	+1	н		
1,1,1,2-Tetrachloroethane	ND	5.0	"	"	н		"	U		
Tetrachloroethene	ND	5.0	"	*1		*1	**	**		
Toluene	ND	5.0		**	**		11	11		
1,2,3-Trichlorobenzene	ND	5.0	н	"	"					
1,2,4-Trichlorobenzene	ND	5.0	**	н	"	"		**		
1,1,2-Trichloroethane	ND	5.0	**	Ħ	**	**	11	11		
1,1,1-Trichloroethane	ND	5.0	"	19	н		"	"		
Trichloroethene	ND	5.0	"	"	"	"				
Trichlorofluoromethane	ND	5.0	"	**			**	**		
1,2,3-Trichloropropane	ND	5.0	**	**	#	**	**			
1,3,5-Trimethylbenzene	ND	5.0		"	**			•		
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	**	41	14		
Vinyl chloride	ND	5.0	41	11	41	**	**	"		
m,p-Xylene	ND	5.0	"	**	**		**			
o-Xylene	ND	5.0	"	*	34	ч	"	"		
Surrogate: Toluene-d8		99.8 %	86	-115	"	27	н	"		
Surrogate: 4-Bromofluorobenzene		102 %		-115	**	"	"	"		
Surrogate: Dibromofluoromethane		104 %		-118	"	"	"	12		

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Project: Associated Plating Project Number: 59-00115133.01

Project Manager: Mauricio Escobar

Reported:

2/25/02

Conventional Chemistry Parameters by APHA/EPA Methods SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B5-1 (T200135-01) Soil	Sampled: 02/20/02 00:00	Received	3: 02/20/	02 12:20		_			
pН	8.4		p H Units	Ī	2022208	02/20/02	02/22/02	EPA 9045B	
B55-1 (T200135-02) Soil	Sampled: 02/20/02 00:00	Receive	ed: 02/20	0/02 12:20)				
pН	8.7		p H Units	1	2022208	02/20/02	02/22/02	EPA 9045B	
B5-5 (T200135-03) Soil	Sampled: 02/20/02 00:00	Received	1: 02/20/	02 12:20					
pН	8.1		pH Units	I	2022208	02/20/02	02/22/02	EPA 9045B	
B4-1 (T200135-04) Soil	Sampled: 02/20/02 00:00	Received	1: 02/20/	02 12:20					
pН	7.9		pH Units	ī	2022208	02/20/02	02/22/02	EPA 9045B	
B4-5 (T200135-05) Soil	Sampled: 02/20/02 00:00	Received	3: 02/20/	02 12:20					
pН	7.5		pH Units	ī	2022208	02/20/02	02/22/02	EPA 9045B	
B3-1.5 (T200135-06) Soil	Sampled: 02/20/02 00:0	0 Receiv	ed: 02/2	0/02 12:2	0				
pН	7.9		p H Units	1	2022208	02/20/02	02/22/02	EPA 9045B	
B3-5 (T200135-07) Soil	Sampled: 02/20/02 00:00	Received	1: 02/20/	02 12:20					
pН	7.6		pH Units	1	2022208	02/20/02	02/22/02	EPA 9045B	

SunStar Laboratories, Inc.

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Project: Associated Plating Project Number: 59-00115133.01

Project Manager: Mauricio Escobar

Reported: 2/25/02

EDA 6010D Quality Control

Metals by EPA 6010B - Quality Control SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2022206 - EPA 3050B									
Blank (2022206-BLK1)			Prepare	d: 02/21/0	2 Analy	zed: 02/22/02			
Antimony	ND	2.0 mg/kg							
Arsenic	ND	5.0 "							
Barium	ND	0.1							
Beryllium	ND	1.0 "							
Cadmium	ND	1.0 "							
Chromium	ND	1.0 "							
Cobalt	ND	1.0 "							
Соррег	ND	1.0 "							
Lead	ND	1.0 "							
Mercury	ND	0.10 "							
Molybdenum	ND	1.0 "							
Nickel	ND	1.0 "							
Selenium	ND	5.0 "							
Silver	ND	2.0 "							
Thallium	ND	2.0 "							
Vanadium	ND	1.0 "							
Zinc	ND	1.0 "							
LCS (2022206-BS1)			Prepare	ed: 02/21/0	2 Analy	zed: 02/22/02	;		
Arsenic	76.5	5.0 mg/kg	100		76.5	60-125			
Barium	87.1	1.0 "	100		87.1	60-125			
Cadmium	80.4	1.0 "	100		80.4	60-125			
Chromium	86.0	0.1	100		86.0	60-125			
Lead	78.6	1.0 "	100		78.6	60-125			
Matrix Spike (2022206-MSI)	Source	: T200134-01	Prepare	ed: 02/21/0)2 Analy	zed: 02/22/02	:		
Arsenic	64.0	5.0 mg/kg	100	ND	64.0	60-125			
Barium	110	" 0.1	100	36	74.0	60-125			
Cadmium	78.9	1.0 "	100	1.7	77.2	60-125			
Chromium	94.4	1.0 "	100	16	78.4	60-125			
Lead	83.6	1.0 "	100	6.0	77.6	60-125			

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Project: Associated Plating Project Number: 59-00115133.01 Project Manager: Mauricio Escobar

Reported:

2/25/02

Metals by EPA 6010B - Quality Control SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2022206 - EPA 3050B									
Matrix Spike Dup (2022206-MSD1)	Source:	T200134-01	Ргераге	ed: 02/21/0	2 Analy	zed: 02/22/02	2		
Arsenic	74.3	5.0 mg/kg	100	ND	74.3	60-125	14.9	30	
Barium	126	1.0 "	100	36	90.0	60-125	13.6	30	
Cadmium	91.4	1.0 "	100	1.7	89.7	60-125	14.7	30	
Chromium	113	1.0 "	100	16	97.0	60-125	17.9	30	
Lead	92.8	1.0 "	100	6.0	86.8	60-125	10.4	30	

SunStar Laboratories, Inc.

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Project: Associated Plating

Project Number: 59-00115133.01

Project Manager: Mauricio Escobar

Reported: 2/25/02

Volatile Organic Compounds by EPA Method 8260B - Quality Control SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch 2022002 - EPA 5035 Se	oil MS									
Blank (2022002-BLK1)			Prepare	d: 02/20/0	2 Analy	zed: 02/22/02				
Benzene	ND	5.0 ug/kg								
Bromobenzene	ND	5.0 "								
Bromochloromethaue	ND	5.0 "								
Bromodichloromethane	ND	5.0 "								
Bromoform	ND	5.0 "								
Bromomethane	ND	5.0 "								
n-Butylbenzene	ND	5.0 "								
sec-Butylbenzene	ND	5.0 "								
tert-Butylbenzene	ND	5.0 "								
Carbon tetrachloride	ND	5.0 "								_
Chlorobenzene	ND	5.0 "								
Chloroethane	ND	5.0 "								
Chloroform	ND	5.0 "								
Chloromethape	ND	5.0 "								
2-Chlorotoluene	ND	5.0 "								
4-Chlorocoluene	ND	5.0 "								
Dibromochloromethane	ND	5.0 "								pinelle.
1,2-Dibromo-3-chloropropage	ND	5.0 "								
1,2-Dibromoethane (EDB)	ND	5.0 "								0.8
Dibromomethane	ND	5.0 "								_
1,2-Dichlorobenzene	ND	5.0 "								
1,3-Dichlorobenzene	ND	5.0 "								
1,4-Dichlorobenzene	ND	5.0 "								
Dichlorodifluoromethane	ND	5.0 "								
I,1-Dichloroethane	ND	5.0 "								
1,2-Dichloroethane	ND	5.0 "								
1,1-Dichloroethene	ND	5.0 "								-
cis-1,2-Dichloroethene	ND	5.0 "								
trans-1,2-Dichloroethene	ND	5.0 "								
1,2-Dichloropropane	ND	5.0 "								_
1,3-Dichloropropane	ND	5.0 "								
2,2-Dichloropropane	ND	5.0 "								
1,1-Dichloropropene	ND	5.0 "								
cis-I,3-Dichloropropene	ND	5.0 "								
trans-1,3-Dichloropropene	ND	5.0 "								11
Ethylbenzene	ND	5.0 "								
Hexachlorobutadiene	ND	5.0 "								
Isopropylbenzene	ND	5.0 "								
130b10b1thcurous	110	5.0								-11

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Leah Beauchaine, Project Manager

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Project Number: 59-00115133.01 Project Manager: Mauricio Escobar

Reported:

2/25/02

Volatile Organic Compounds by EPA Method 8260B - Quality Control SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2022002 - EPA 5035 Soil	MS								
Blank (2022002-BLK1)			Prepare	d: 02/2 0/0	2 Analy	zed: 02/22/02			
p-lsopropyltoluene	ND	5.0 ug/kg	-						
Methylene chloride	ND	5.0 "							
Naphthalene	ND	5.0 "							
n-Propylbenzene	ND	5.0 "							
Styrene	ND	5.0 "							
1,1,2,2-Tetrachloroethane	ND	5.0 "							
I,I,I,2-Tetrachloroethane	ND	5.0 "							
Tetrachloroethene	ND	5.0 "							
Toluene	ND	5.0 "							
1,2,3-Trichlorobenzene	ND	5.0 "							
1,2,4-Trichlorobenzene	ND	5.0 "							
1,1,2-Trichloroethane	ND	5.0 "							
I,I,I-Trichloroethane	ND	5.0 "							
Trichloroethene	ND	5.0 "							
Prichlorofluoromethane	ND	5.0 "							
1,2,3-Trichloropropane	ND	5.0 "							
1,3,5-Trimethylbenzene	ND	5.0 "							
1,2,4-Trimethylbenzene	ND	5.0 "							
Vinyl chloride	ND	5.0 "							
m,p-Xylene	ND	5.0 "							
o-Xylene	ND	5.0 "							
Surrogate: Toluene-d8	39.6	"	40.0		99.0	81-117			
Surrogate: 4-Bromofluorobenzene	39.1	**	40.0		97.8	74-121			
Surrogate: Dibromofluoromethane	40.4	**	40.0		101	80-120			
LCS (2022002-BS1)			Prepare	d: 02/20/0	2 Analy	zed: 02/21/02			
Benzene	110	5.0 ug/kg	100		110	75-125			
Chlorobenzene	100	5.0 "	100		100	75-125			
I,1-Dichloroethene	108	5.0 "	100		108	15-125			
Toluene	105	5.0 "	100		105	75-125			
Trichloroethene	105	5.0 "	100		105	75-125			
Surrogate: Toluene-d8	41.1	"	40.0		103	81-117			
Surrogate: 4-Bromofluorobenzene	40.4	"	40.0		101	74-121			
Surragate: Dibromofluoromethane	32.4	"	40.0		81.0	80-120			

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Project: Associated Plating Project Number: 59-00115133.01 Project Manager: Mauricio Escobar

Reported:

2/25/02

Volatile Organic Compounds by EPA Method 8260B - Quality Control SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
		Limit Onic	LATEI	Kesuit	MALIC	211112	Ki D		110163
Batch 2022002 - EPA 5035 Soil	MS								
LCS Dup (2022002-BSD1)			Ргераге	d: 02/20/0	2 Analyz	zed: 02/21/02			
Benzene	92.2	5.0 ug/kg	100		92.2	75-125	17.6	20	
Chlorobenzene	92.7	5.0 "	100		92.7	75-125	7.58	20	
1,1-Dichloroethene	125	5.0 "	100		125	15-125	14.6	20	
Toluene	95.7	5.0 "	100		95.7	75-125	9.27	20	
richloroethene	94.5	5.0 *	100		94.5	75-125	10.5	20	
urrogate: Toluene-d8	40.2	,	40.0		100	81-117			
Surrogate: 4-Bromofluorobenzene	40.0	"	40.0		100	74-121			
urrogate: Dibromofluoromethane	40.9	"	40.0		102	80-120			
Batch 2022003 - EPA 5030 Wa	ter MS								
Blank (2022003-BLK1)			Prepared	d: 02/20/ 0	2 Analyz	zed: 02/21/02			
Beozene	ND	5.0 ug/l	•		,				
fromobenzene	ND	5.0 "							
romochloromethane	ND	5.0 "							
romodichloromethane	ND	5.0 "							
romofo rm	ND	5.0 "							
romomethane	ND	5.0 "							
Butylbenzene	ND	5.0 "							
ec-Butylbenzene	ND	5.0 "							
rt-Butylbenzene	ND	5.0 "							
arbon tetrachloride	ND	5.0 "							
chlorobeozene	ND	5.0 "							
hloroethane	ND	5.0 "							
hloroform	ND	5.0"							
Thloromethane	ND	5.0 "							
-Chlorotoluene	ND	5.0 "							
-Chlorotoluene	ND	5.0 "							
ibromochloromethane	ND	5.0 "							
,2-Dibromo-3-chloropropane	ND	5.0 "							
2-Dibromoethane (EDB)	ND	5.0 "							
ibromomethane	ND	5.0 "							
2-Dichlorobenzene	ND	5.0 "							
3-Dichlorobenzene	ND	5.0 "							
,4-Dichlorobenzene	ND	5.0 "							
Dichlorodifluoromethane	ND	5.0 "							
,l-Dichloroethane	ND	5.0 "							
,2-Dichloroethane	ND	5.0 "							

SunStar Laboratories, Inc.

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Leah Beauchaine, Project Manager

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Project: Associated Plating
Project Number: 59-00115133.01
Project Manager: Mauricio Escobar

Reported:

2/25/02

Volatile Organic Compounds by EPA Method 8260B - Quality Control SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
-									
Batch 2022003 - EPA 5030 Wa	ter IVIS								
Blank (2022003-BLK1)	_		Prepare	d: 02/20/0	2 Analy	zed: 02/21/02	2		
I,I-Dichloroethene	ND	5.0 աջ/Լ							
cis-1,2-Dichloroethene	ND	5.0 "							
trans-1,2-Dichloroethene	ND	5.0 "							
1,2-Dichloropropane	ND	5.0 "							
,3-Dichloropropane	ND	5.0 "							
2,2-Dichloropropane	ND	5.0 "							
,1-Dichloropropene	ND	5.0 "							
cis-1,3-Dichloropropene	ND	5.0 "							
trans-1,3-Dichloropropene	ND	5.0 "							
Ethylbenzene	ND	5.0 "							
Hexachlorobutadiene	ND	5.0 "							
sopropylbenzene	ND	5.0 "							
o-Isopropyltoluene	ND	5.0 "							
Methylene chloride	ND	5.0 "							
Naphthalene	ND	5.0 "							
ı-Propylbenzene	ND	5.0 "							
Styrene	ND	5.0 "							
, I, 2, 2-Tetrachloroethane	ND	5.0 "							
I, I, I, 2-Tetrachloroethane	ND	5.0 "							
l'etrachloroethene	ND	5.0 "							
loluene	ND	5.0 "							
1,2,3-Trichlorobenzene	ND	5.0 "							
,2,4-Trichlorobenzene	ND	5.0 "							
1,1,2-Trichloroethane	ND	5.0 "							
1,1,1-Trichloroethane	ND	5.0 "							
Frichloroethene	ND	5.0 "							
Prichlerofluoromethane	ND	5.0 "							
1,2,3-Trichloropropane	ND	5.0 "							
1,3,5-Trimethylbenzene	ND	5.0 "							
,2,4-Trimethylbenzene	ND	5.0 "							
Vinyl chloride	ND	5.0 "							
n,p-Xylene	ND	5.0 "							
-Xylene	ND	5.0 "							
Surrogate: Toluene-d8	39.6	"	40.0		99.0	86-115			
Surrogate: 4-Bromofluorobenzene	39.1	**	40.0		97.8	86-115			
Surrogate: Dibromofluoromethane	40.4	"	40.0		101	86-118			

SunStar Laboratories, Inc.

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Project: Associated Plating Project Number: 59-00115133.01

Project Manager: Mauricio Escobar

Reported:

2/25/02

Volatile Organic Compounds by EPA Method 8260B - Quality Control SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2022003 - EPA 5030 Water	MS								
Matrix Spike (2022003-MS1)	Source:	T200135-15	Prepare	d: 02/2 0/02	. Analy	zed: 02/21/02			
Benzene	109	5.0 ug/l	100	ND	109	75-125			
Chlorobenzene	95.2	5.0 "	100	ND	95.2	75-125			
, I-Dîchloroethene	106	5.0 "	100	ND	106	75-125			
Toluene	98.9	5.0 "	100	ND	98.9	75-125			
Trichloroethene	100	5.0 "	100	ND	100	75-125			
urrogate: Toluene-d8	40.2	27	40.0		100	86-115			
Surrogate: 4-Bromofluorobenzene	40.2	"	40.0		100	86-115			
urrogate: Dibromofluoromethane	41.1	"	40.0		103	86-118			
Matrix Spike Dup (2022003-MSD1)	Source:	T200135-15	Prepare	d: 02/20/02	Analy	zed: 02/21/02			
Benzene	97.4	5.0 ug/l	100	ND	97.4	75-125	11.2	20	
Chlorobenzene	88.9	5.0 "	100	ND	88.9	75-125	6.84	20	
,1-Dichloroethene	91.6	5.0 "	100	ND	91.6	75-125	14.6	20	
'oluene	93.2	5.0 "	100	ND	93.2	75-125	5.93	20	
richloroethene	91.9	5.0 "	100	ND	91.9	75-125	8.44	20	
urrogate: Toluene-d8	40.6	"	40.0		102	86-115			
urrogate: 4-Bromofluorobenzene	40.7	"	40.0		102	86-115			
Surrogate: Dibromofluoromethane	41.9	"	40.0		105	86-118			

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URS Corporation Project: Associated Plating
911 Wilshire Boulevard Project Number: 59-00115133.01
Los Angeles CA, 90017 Project Manager: Mauricio Escobar 2/25/02

Notes and Definitions

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

SunStar Laboratories, Inc.

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Project Number: 59-00115133.01
Project Manager: Mauricio Escobar

Reported: 2/27/02

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B10-0.5	T200136-01	Soil	2/21/02	2/21/02
B210-0.5	T200136-02	Soil	2/21/02	2/21/02
B10-5	T200136-03	Soil	2/21/02	2/21/02
B10-10	T200136-04	Soil	2/21/02	2/21/02
B10-20	T200136-06	Soil	2/21/02	2/21/02
B10-30	T200136-08	Soil	2/21/02	2/21/02
B10-GW	T200136-10	Water	2/21/02	2/21/02
Rinsate 022102	T200136-11	Water	2/21/02	2/21/02

SunStar Laboratories, Inc.

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Leah Beauchaine, Project Manager

Page 1 of 2

URS Corporation Project: Associated Plating
911 Wilshire Boulevard Project Number: 59-00115133.01

Los Angeles CA, 90017 Project Manager: Mauricio Escobar 2/27/02

Extractable Petroleum Hydrocarbons by 8015 SunStar Laboratories, Inc.

Analyte	Result	porting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B10-10 (T200136-04) Soil	Sampled: 02/21/02 00:00	Receiv	red: 02/	21/02 13:	39				
C6-C10	ND	10	mg/kg	1	2022205	02/22/02	02/25/02	EPA 8015B	
C10-C28	ND	10		"	"	*1	n	**	
C28-C40	ND	10	**	•	**	"	19	"	
B10-20 (T200136-06) Soil	Sampled: 02/21/02 00:00	Receiv	ved: 02/	21/02 13:	39				
C6-C10	410	10	mg/kg	ī	2022205	02/22/02	02/25/02	EPA 8015B	
C10-C28	430	10	**	11				"	
C28-C40	ND	10	**	"		"	н	11	
B10-30 (T200136-08) Soil	Sampled: 02/21/02 00:00	Receiv	ed: 02/	21/02 13:	39				
C6-C10	770	10	mg/kg	1	2022205	02/22/02	02/25/02	EPA 8015B	
C10-C28	1500	10	11	11	**	н	71	"	
C28-C40	ND	10	++	>7	"	"	+1	**	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Project: Associated Plating Project Number: 59-00115133.01

Project Manager: Mauricio Escobar

Reported: 2/27/02

Volatile Organic Compounds by EPA Method 8260B

SunStar Laboratories, Inc.

			1000	OFALOFI	, IIIC.				
Analyte	Result	porting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B10-0.5 (T200136-01) Soil	Sampled: 02/21/02 00:00	Recei	ved: 02	/21/02 13:	39			-	
Benzene	ND	5.0	ug/kg	1	2022203	02/22/02	02/25/02	EPA 8260B	
Bromobenzene	ND	5.0	11	++	#	**	**		
Bromochloromethane	ND	5.0	**	"	"	•	"	н	
Bromodichloromethane	ND	5.0	"	"	"			"	
Bromoform	ND	5.0	"	"	"	"	44	**	
Bromomethane	ND	5.0		"	"	41	**	"	
n-Butylbenzene	ND	5.0		11	11	**	n n	,,	
sec-Butylbenzene	ND	5.0	11	*	n	н		**	
tert-Butylbenzene	ND	5.0	**	"				"	
Carbon tetrachloride	ND	5.0	**		"	**	"	**	
Chlorobenzene	ND	5.0	"	"	"	11	Ħ		
Chloroethane	ND	5.0	"	11	**	"	**	**	
Chloroform	ND	5.0	41	**	"			н	1
Chloromethane	ND	5.0	**	"	"	84	11	"	
2-Chlorotoluene	ND	5.0		"	"	11	11		
4-Chlorotoluene	ND	5.0		**	11	*	**	**	r
Dibromochloromethane	ND	5.0		**	"		"	*1	
1,2-Dibromo-3-chloropropane	e ND	5.0	11		"		"		
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	**	4	"	
Dibromomethane	ND	5.0		**	11			11	
1,2-Dichlorobenzene	ND	5.0	"	11	br		**		
1,3-Dichlorobenzene	ND	5.0	11		"	*1	11	**	
1,4-Dichlorobenzene	ND	5.0	"	"	44	77	33	11	
Dichlorodifluoromethane	ND	5.0		**	**	"		**	
1,1-Dichloroethane	ND	5.0	**	**	"		**		
1,2-Dichloroethane	ND	5.0	**	"	"	41	**	14	,
1,1-Dichloroethene	ND	5.0		"	"	"	"	**	
cis-1,2-Dichloroethene	250	5.0		41	**		"	44	
trans-1,2-Dichloroethene	22	5.0	**	**	"	"	"	14	
1,2-Dichloropropane	ND	5.0	11	"		**	**	74 N	
1,3-Dichloropropane	ND	5.0	,,	"	"	H		н	
2,2-Dichloropropane	ND	5.0	,,	"	н				
1,1-Dichloropropene	ND	5.0		Ħ			"	"	
cis-1,3-Dichloropropene	ND	5.0	"	"	"		17	"	
trans-1,3-Dichloropropene	ND	5.0	**		"	"	"		
Ethylbenzene	ND	5.0	"		11		"		
Hexachlorobutadiene	ND	5.0		**	"		+7	17	
Isopropylbenzene	ND	5.0		***	**		**	**	
p-Isopropyltoluene	ND	5.0	**	**		**	" "		
Methylene chloride	ND	5.0	**		"	"	**		
Naphthalene	ND	5.0	,,		14		*1		

SunStar Laboratories, Inc.

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Lear Beauchaine, Project Manager

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Project: Associated Plating Project Number: 59-00115133.01 Project Manager: Mauricio Escobar

Reported:

2/27/02

Volatile Organic Compounds by EPA Method 8260B SunStar Laboratories, Inc.

Analyte	Result	porting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
B10-0.5 (T200136-01) Soil	Sampled: 02/21/02 00:00	Recei	ved: 02	/21/02 13:	:39				
n-Propylbenzene	ND	5.0	ug/kg	İ	2022203	02/22/02	02/25/02	EPA 8260B	
Styrene	ND	5.0		"	"		**	11	
1,1,2,2-Tetrachloroethane	ND	5.0	n	41	"	4		11	
1,1,1,2-Tetrachloroethane	ND	5.0		41	n		"	**	
Tetrachloroethene	ND	5.0		71	"			"	
Toluene	ND	5.0	"	**	**				
1,2,3-Trichlorobenzene	ND	5.0	"	"		**	"	"	
1,2,4-Trichlorobenzene	ND	5.0	**	"	61	14	**		
1,1,2-Trichloroethane	ND	5.0	**	"	**	**	11	**	
1,1,1-Trichloroethane	ND	5.0	"		41	#	н	**	
Trichloroethene	96	5.0	44		"	#	19	"	
Trichlorofluoromethane	ND	5.0	11		**	"	"	11	
1,2,3-Trichloropropane	ND	5.0	**	"	"	**	"	"	
1,3,5-Trimethylbenzene	ND	5.0	*	"	"	"	"	»	
1,2,4-Trimethylbenzene	ND	5.0	"	44	"	"		"	
Vinyl chloride	ND	5.0		n	"				
m,p-Xylene	ND	5.0	,,	#					
o-Xylene	ND	5.0		**	н	**			
Surrogate: Toluene-d8		104 %	81	-117	"	"	"	**	
Surrogate: 4-Bromofluoroben	zene 9	9.5 %	74	-121	*	**	**	ar.	
Surrogate: Dibromofluoromet		2.8 %		-120	*	**	"	,,	
B210-0.5 (T200136-02) Soil	Sampled: 02/21/02 00:06	Rece	eived: 0	2/21/02 13	3:39				
Benzene	ND	5.0	ug/kg	1	2022203	02/22/02	02/25/02	EPA 8260B	
Bromobenzene	ND	5.0	"	"		D			
Bromochloromethane	ND	5.0	,,	#		n		**	
Bromodichloromethane	6.1	5.0		**	н		**	н	
Bromoform	ND	5.0		"	"		41	n	
Bromomethane	ND	5.0		•	"		41	11	
n-Butylbenzene	ND	5.0			H	"	rr	**	
sec-Butylbenzene	ND	5.0	11	**	н	"	n	"	
tert-Butylbenzene	ND	5.0			**	"	"		
Carbon tetrachloride	ND	5.0			11	11			
Chlorobenzene	ND	5.0			*1	11			
Chloroethane	ND	5.0	и	6	**	+			
Chloroform	6.0	5.0	"		"	++		n	
Chloromethane	ND	5.0	"		н	н	*1	11	
2-Chlorotoluene	ND	5.0	**		,,	rr	н	11	
2-0110101010106116									
4-Chlorotoluene	ND	5.0			n	н	**	44	

SunStar Laboratories, Inc.

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Leah Beauchaine, Project Manager

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Project: Associated Plating Project Number: 59-00115133.01

Project Manager: Mauricio Escobar

Reported:

2/27/02

Volatile Organic Compounds by EPA Method 8260B

SunStar Laboratories, Inc.

		orting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
B210-0.5 (T200136-02) Soil	Sampled: 02/21/02 00:00	Rece	ived: 0	2/21/02 13	3:39				
1,2-Dibromo-3-chloropropane	ND	5.0	ug/kg	1	2022203	02/22/02	02/25/02	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	5.0	11	"	#	"	#	»	
Dibromomethane	ND	5.0	"		"	"	,,		
1,2-Dichlorobenzene	ND	5.0		"	и	,		**	
1,3-Dichlorobenzene	ND	5.0	"	11	41		11	P	
1,4-Dichlorobenzene	ND	5.0	11	"	**	11	**	•	
Dichlorodifluoromethane	ND	5.0	**		"	**	"	"	,
1,1-Dichloroethane	ND	5.0			н		44	н	
1,2-Dichloroethane	ND	5.0	**	+*	11	44	**		
1,1-Dichloroethene	ND	5.0	11	,,	n	**	"		
cis-1,2-Dichloroethene	350	5.0	"	"		"	"	"	
trans-1,2-Dichloroethene	28	5.0	"	"	**	41	19		
1,2-Dichloropropane	ND	5.0	"	"	"	"		**	
1,3-Dichloropropane	ND	5.0	11	h		"	"	**	
2,2-Dichloropropane	ND	5.0	"		"	н	#	"	
1,1-Dichloropropene	ND	5.0	"	19	**	n	"	N	
cis-1,3-Dichloropropene	ND	5.0	**		"	"	"	н	
rans-1,3-Dichloropropene	ND	5.0	++	"	"		rt		
Ethylbenzene	ND	5.0		41	11	19		"	
Hexachlorobutadiene	ND	5.0	**	"			**	**	
sopropylbenzene	ND	5.0	**	"	"	14	"	"	
p-Isopropyltoluene	ND	5.0		41	#	"		**	
Methylene chloride	ND	5.0		**	"		44	**	
Naphthalene	ND	5.0	11	"	"	41	"		
n-Propylbenzene	ND	5.0	"		**	"		19	
Styrene	ND	5.0		19	,,	,,	**		
1,1,2,2-Tetrachloroethane	ND	5.0	"	**	"	"	,,	"	
1,1,1,2-Tetrachloroethane	ND	5.0	"		"	††	"	#	
Tetrachloroethene	ND	5.0	**	41	**	"	"	"	
l'oluene	ND	5.0	"	**	"	"	н	м	
1,2,3-Trichlorobenzene	ND	5.0	"	**	"	*1	,,	**	
1,2,4-Trichlorobenzene	ND	5.0	11	"	**	**	"	**	
1,1,2-Trichloroethane	ND	5.0	н	**	**	"	**	"	
1,1,1-Trichloroethane	ND	5.0	"	1>	"	"	"	44	
Frichloroethene	150	5.0	"		**	*1	"		
Prichlorofluoromethane	ND	5.0	11		11	"	11		
1,2,3-Trichloropropane	ND	5.0	**	11	"	"	"	**	
1,3,5-Trimethylbenzene	ND	5.0	"	н	н	Ħ	"	"	
,2,4-Trimethylbenzene	ND	5.0	"	"	44	"	11		
Vinyl chloride	ND	5.0	11	н	"	"	u u	11	
m,p-Xylene	ND	5.0	**	*1	,,	*1		"	

SunStar Laboratories, Inc.

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Leah Beauchaine, Project Manager

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Project: Associated Plating
Project Number: 59-00115133.01
Project Manager: Mauricio Escobar

Reported:

2/27/02

Volatile Organic Compounds by EPA Method 8260B SunStar Laboratories, Inc.

		Sunsta	LLan	Oratori	es, me.				
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
B210-0.5 (T200136-02) Soil Samp	oled: 02/21/02 0	0:00 Rec	eived: 0	2/21/02 13	3:39				
o-Xylene	ND	5.0	ug/kg	1	2022203	02/22/02	02/25/02	EPA 8260B	
Surrogate: Toluene-d8		106 %	81	-117	"	**	"	**	
Surrogate: 4-Bromofluorobenzene		102 %	74	-121	"	н	"	"	
Surrogate: Dibromofluoromethane		87.8 %		-120		,,,	,,	,,	
B10-5 (T200136-03) Soil Sampled	i: 02/21/02 00:0	0 Receive	ed: 02/2	21/02 13:3	9				
Benzene	ND	5.0	ug/kg	1	2022203	02/22/02	02/22/02	EPA 8260B	
Bromobenzene	ND	5.0	"	,,	**		"		
Bromochloromethane	ND	5.0		**	н		44	**	
Bromodichloromethane	ND	5.0		41	**	v	**		
Вготоботь	ND	5.0	"		"	· ·	**	**	
Bromomethane	ND	5.0		*1	**	н	н	14	
n-Burylbenzene	ND	5.0	44	41	"		**	41	
sec-Butylbenzene	14	5.0	"	11	"	"	"	Pt	
tert-Butylbenzene	ND	5.0		*1		**	"	н	
Carbon tetrachloride	ND	5.0	41	11	be	4		**	
Chlorobenzene	ND	5.0	**	11		Ħ	"	"	
Chloroethane	ND	5.0	**	H		н			
Chloroform	ND	5.0	**	77		**	ı,	"	
Chloromethane	ND	5.0	11	**	"	"			
2-Chlorotoluene	ND	5.0	**	**	"	н	"		
4-Chlorotoluene	ND	5.0	**		11		"		
Dibromochloromethane	ND	5.0	"	"	**		Ħ	**	
1,2-Dibromo-3-chloropropane	ND	5.0	**		H	**	н	19	
1,2-Dibromoethane (EDB)	ND	5.0		"	"	**	n	**	
Dibromomethane	ND	5.0		4	"	+*			
1,2-Dichlorobenzene	ND	5.0		17		**	"	**	
1,3-Dichlorobenzene	ND	5.0	"	**	"		11	14	
1,4-Dichlorobenzene	ND	5.0	н	+7	"		11	*1	
Dichlorodifluoromethane	ND	5.0	**	**	*1		**	**	
1,1-Dichloroethane	18	5.0	17	**	11	**			
1,2-Dichloroethane	ND	5.0	17		1*	11	h.		
1,1-Dichloroethene	ND	5.0	71		n	71	"		
cis-1,2-Dichloroethene	280	5.0	"		**	"	"	11	
trans-1,2-Dichloroethene	39	5.0	"		"	"	11	"	
1,2-Dichloropropane	ND	5.0	"	"		н	**	**	
1,3-Dichloropropane	ND	5.0		**	"	н	"	"	
2,2-Dichloropropane	ND	5.0	"	61	"	11			
1,1-Dichloropropene	ND	5.0	ш	Ħ	*1	41	"	"	
cis-1,3-Dichloropropene	ND	5.0		**	11	**	"	н	

SunStar Laboratories, Inc.

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Project: Associated Plating
Project Number: 59-00115133.01
Project Manager: Mauricio Escobar

Reported:

2/27/02

Volatile Organic Compounds by EPA Method 8260B

SunStar Laboratories, Inc.

Analyte	Result	leporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B10-5 (T200136-03) Soil	Sampled: 02/21/02 00:00	Receive	d: 02/2	1/02 13:3	9				
trans-1,3-Dichloropropene	ND	5.0	ug/kg	1	2022203	02/22/02	02/22/02	EPA 8260B	
Ethylbenzene	78	5.0		"	"	"	*	**	
Hexachlorobutadiene	ND	5.0		n		fr .		11	
Isopropylbenzene	31	5.0	**	11	11	"	**		
p-Isopropyltoluene	ND	5.0	**	"	"	"	11	,	
Methylene chloride	ND	5.0	**	H	"	**	"	"	
Naphthalene	92	5.0		"	"	н		**	
n-Propylbenzene	45	5.0	41	+>	**	"	41	"	
Styrene	ND	5.0	rr		"		"	"	
1,1,2,2-Tetrachloroethane	ND	5.0		н	"	**		11	
1,1,1,2-Tetrachloroethane	ND	5.0		**	**	**	**	**	
Tetrachloroethene	ND	5.0	11	H	**		14		
Toluene	ND	5.0	"		"	Ħ		н	
1,2,3-Trichlorobenzene	ND	5.0		41	"	,,		"	
1,2,4-Trichlorobenzene	ND	5.0	41	"	**		Fr	"	
1,1,2-Trichloroethane	ND	5.0	++		"	*1		11	
1,1,1-Trichloroethane	ND	5.0	**		"	**	"	**	
Trichloroethene	55	5.0		+	+1		**	"	
Trichlorofluoromethane	ND	5.0	11	"	,,	"		н	
1,2,3-Trichloropropane	ND	5.0	"			P	"		
1,3,5-Trimethylbenzene	ND	5.0	"	77	**		**	**	
1,2,4-Trimethylbenzene	ND	5.0	14	,,	"	41		"	
Vinyl chloride	300	5.0	"	"	н	ы	11	14	
m,p-Xylene	ND	5.0	10	74	#		**	11	
o-Xylene	ND	5.0	"		"	11			
Surrogate: Toluene-d8		102 %	81-	117	н	"	n	"	
Surrogate: 4-Bromofluorob	enzene	99.5 %	74.	121	"	"	"	**	
Surrogate: Dibromofluoron		104 %	80-	120	"	"	42	**	

SunStar Laboratories, Inc.

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Leah Beauchaine, Project Manager

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Project: Associated Plating Project Number: 59-00115133.01

Project Manager: Mauricio Escobar

Reported:

2/27/02

Volatile Organic Compounds by EPA Method 8260B SunStar Laboratories, Inc.

Perceting													
Analyte	Result	porting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes				
B10-10 (T200136-04) Soil	Sampled: 02/21/02 00:00	Receiv	ved: 02/	21/02 13:	39								
Benzeue	ND	5.0	ug/kg	1	2022203	02/22/02	02/22/02	EPA 8260B					
Bromobenzene	ND	5.0	11		>=	#	11	**					
Bromochloromethane	ND	5.0	**			"	**	**					
Bromodichloromethane	ND	5.0	11	"		**	+7	11					
Bromoform	ND	5.0	**	и	"		"	н					
Bromomethane	ND	5.0	"	**	"	h		н					
n-Butylbenzene	ND	5.0	**	41	"		"	**					
sec-Butylbenzene	ND	5.0	"	"	**	•		,,					
tert-Bntylbenzeue	ND	5.0	n	#	11			"					
Carbon tetrachloride	ND	5.0	"	11	**	*	"						
Chlorobenzene	ND	5.0	н	+r	1†	"	"	н					
Chloroethane	ND	5.0		**	+	**	**	*1					
Chloroform	ND	5.0		"	**	11	#1	11					
Chloromethane	ND	5.0			**	**	Ħ	10					
2-Chlorotoluene	ND	5.0		•	"	**	"	**					
4-Chlorotoluene	ND	5.0	44		,,	"	"	**					
Dibromochloromethane	ND	5.0			"	•	"	н					
1,2-Dibromo-3-chloropropane	e ND	5.0			"	"		**					
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"								
Dibromomethane	ND	5.0	н	"	"	"		**					
1,2-Dichlorobenzene	ND	5.0	11	**	41		14	**					
1,3-Dichlorobenzene	ND	5.0	#	11	11	44	*11	11					
1,4-Dichlorobenzene	ND	5.0	**	17	**	**	н	rr					
Dichlorodifluoromethane	ND	5.0	19	"	"	#	**	19					
1,1-Dichloroethane	ND	5.0	**		**	17	10	**					
1,2-Dichloroethane	ND	5.0		"	"	»							
1,1-Dichloroethene	ND	5.0		"									
cis-1,2-Dichloroethene	ND	5.0			"			44					
trans-1,2-Dichloroethene	ND	5.0		"		4	"	11					
1,2-Dichloropropane	ND	5.0	**	11	11	"	н	**					
1,3-Dichloropropane	ND	5.0	41	#	+	н	"						
2,2-Dichloropropane	ND	5.0	11	**		H	н						
1,1-Dichloropropene	ND	5.0	PP	,,		p		**					
cis-1,3-Dichloropropene	ND	5.0	"	,,		n	"	"					
trans-1,3-Dichloropropene	ND	5.0	**		"		"	PP					
Ethy!benzene	ND	5.0					17	"					
Hexachlorobutadiene	ND	5.0)•		*1	**	**	и					
Isopropylbenzene	ND	5.0		"	**		**	ii .					
p-Isopropyltoluene	ND	5.0		14	11	**	"						
Methylene chloride	ND	5.0		"	+1	11	"	**					
Naphthalene	16	5.0		#1	**	Ħ		*					
таришанене	10	5.0											

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jest Dauchine

Project Number: 59-00115133.01 Project Manager: Mauricio Escobar

Reported: 2/27/02

Volatile Organic Compounds by EPA Method 8260B

Reporting

SunStar Laboratories, Inc.

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B10-10 (T200136-04) Soil	Sampled: 02/21/02 00:00	Receiv	ved: 02/	21/02 13:	39				
n-Propylbenzene	ND	5.0	ug/kg	1	2022203	02/22/02	02/22/02	EPA 8260B	
Styrene	ND	5.0	#1		**	10	"		
1,1,2,2-Tetrachloroethane	ND	5.0	**		"	ы	**		
1,1,1,2-Tetrachloroethane	ND	5.0	**		n	"			
Tetrachloroethene	ND	5.0	"		"			**	
Toluene	ND	5.0	"	41	,,			н	
1,2,3-Trichlorobenzene	ND	5.0	"	**	"	44	"	н	
1,2,4-Trichlorobenzene	ND	5.0		11	**	4+	44	**	
1,1,2-Trichloroethane	ND	5.0	"	#	41	17	#		
1,1,1-Trichloroethane	ND	5.0		"	**	**	**	"	
Trichloroethene	ND	5.0	"	н	**	"	"		
Trichlorofluoromethane	ND	5.0	*1	"	"		"	**	
1,2,3-Trichloropropane	ND	5.0	**		h			14	
1,3,5-Trimethylbenzene	ND	5.0				44	**	H	
1,2,4-Trimethylbenzene	ND	5.0	.,	"	"	17	41	**	
Vinyl chloride	ND	5.0		*1	*1	н	Н		
m,p-Xylene	ND	5.0		11	#	**	"		
o-Xylene	ND	5.0		**	")3	**	
Surrogate: Toluene-d8		98.0 %	81-	117	"	"	"	"	
Surrogate: 4-Bromofluorob	enzene	94.2 %	74-	121	"	"	44	**	
Surrogate: Dibromofluorom		81.2 %	80-	120	"	**	"	44	-
B10-20 (T200136-06) Soil	Sampled: 02/21/02 00:00	Receiv	ved: 02/	21/02 13:3	39				1
Benzene	ND	5.0	ug/kg	1	2022203	02/22/02	02/22/02	EPA 8260B	Į
Bromobenzene	ND	5.0	"	11	ti.	47	"		
Bromochloromethane	ND	5.0	11	"	"	**	**	**	1
Bromodichloromethane	ND	5.0	**		**) 1	4	
Bromoform	ND	5.0	"	"	H			n.	7
Bromomethane	ND	5.0	**	**	**	**	,,	h	_
n-Butylbenzene	20	5.0		**		**	"		
sec-Butylbenzene	26	5.0		†*	"	41	41	**	
tert-Butylbenzene	ND	5.0	"	"		**	11		
Carbon tetrachloride	ND	5.0		30	44	**	"	**	T
Chlorobenzene	ND	5.0	"	"	**	"	"	я	
Chloroethane	ND	5.0	"		H	11	"	н	
Chloroform	ND	5.0	**		,,	"	"	PP	
Chloromethane	ND	5.0	**	*1	D	н		,,	
2-Chlorotoluene	ND	5.0	**	41		н	41		, l
4-Chlorotoluene	ND	5.0		**		**	#	ч	
Dibromochloromethane	ND	5.0	"	**	**	n	"	11	

SunStar Laboratories, Inc.

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Leah Beauchaine, Project Manager

Page 9 of

Project: Associated Plating Project Number: 59-00115133.01 Project Manager: Mauricio Escobar

Reported: 2/27/02

Volatile Organic Compounds by EPA Method 8260B

SunStar Laboratories, Inc.

Sunstai Laboratories, Inc.												
Analyte	Resuit	porting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes			
B10-20 (T200136-06) Soil	Sampled: 02/21/02 00:00	Receiv	ved: 02/	21/02 13:	39							
1,2-Dibromo-3-chloropropar	ne ND	5.0	ug/kg	1	2022203	02/22/02	02/22/02	EPA 8260B				
1,2-Dibromoethane (EDB)	ND	5.0	19	v	#	**	"	U				
Dibromomethane	ND	5.0	**	**	н	,,		hy				
1,2-Dichlorobenzene	ND	5.0	"		"							
1,3-Dichlorobenzene	ND	5.0	"	"	"							
1,4-Dichlorobenzene	ND	5.0			"							
Dichlorodifluoromethane	ND	5.0	"	*			44	**				
1,1-Dichloroethane	ND	5.0			"	"	11	**				
1,2-Dichloroethane	ND	5.0	*	ų!		**	**	**				
1,1-Dichloroethene	ND	5.0			**		n	11				
cis-1,2-Dichloroethene	6.1	5.0	**	"			Ħ	"				
trans-1,2-Dichloroethene	ND	5.0	"		"	44	"	**				
1,2-Dichloropropane	ND	5.0		"		**	**	"				
1,3-Dichloropropane	ND	5.0		"		1+	"					
2,2-Dichloropropane	ND	5.0	**	**		H						
1,1-Dichloropropene	ND	5.0		44		"		,,				
cis-1,3-Dichloropropene	ND	5.0		**	41	"	,,					
trans-1,3-Dichloropropene	ND	5.0	"	*1	**		**					
Ethylbenzene	21	5.0	**	11	"	•		44				
Hexachlorobutadiene	ND	5.0		**	11		**	**				
Isopropylbenzene	41	5.0	**	**	**		14	**				
p-Isopropyltoluene	36	5.0	**	"	**		11	17				
Methylene chloride	ND	5.0	11	"	н	"	**	P				
Naphthalene	300	5.0	17	н	"	41	,,	ы				
n-Propylbenzene	51	5.0	**	ji	"	41	,,					
Styrene	ND	5.0	"		н	**						
1,1,2,2-Tetrachloroethane	ND	5.0	"	ч		,,						
1,1,1,2-Tetrachloroethane	ND	5.0	и				"					
Tetrachloroethene	ND	5.0		"	"	"	"	"				
Toluene	ND	5.0		**	*1		11	***				
1,2,3-Trichlorobenzene	ND	5.0		41	н		41	4+				
1,2,4-Trichlorobenzene	ND	5.0		**	*1		D.	17				
1,1,2-Trichloroethane	ND	5.0	"	11	41	"	**	н				
1,1,1-Trichloroethane	ND	5.0		11	4+	**	"					
Trichloroethene	ND	5.0	"	**	79	41	p					
Trichlorofluoromethane	ND	5.0	"	"	н	"						
1,2,3-Trichloropropane	ND	5.0	"	**	"	#		**				
1,3,5-Trimethylbenzene	95	5.0	"	"	**	Ŧſ		**				
1,2,4-Trimethylbenzene	410	5.0	**	"		PT	"	"				
Vinyl chloride	7.6	5.0	11				11	,,				
m,p-Xylene	230	5.0	41		и	"	41					
4												

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Project: Associated Plating Project Number: 59-00115133.01

Project Manager: Mauricio Escobar

Reported:

2/27/02

Volatile Organic Compounds by EPA Method 8260B SunStar Laboratories, Inc.

				Oratori		··············			
Analyle	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B10-20 (T200136-06) Soil	Sampled: 02/21/02 00:0	0 Receiv	ved: 02/	21/02 13:	39	· ·			
o-Xylene	10	5.0	ug/kg	1	2022203	02/22/02	02/22/02	EPA 8260B	
Surrogate: Toluene-d8		94.5 %	81-	-117	**	"	"		
Surrogate: 4-Bromofluorobe	nzene	120 %	74.	-121	"	**	,,	**	
Surrogate: Dibromofluorome		114 %	80-	120	"	"	"	"	
B10-30 (T200136-08) Soil	Sampled: 02/21/02 00:0	0 Receiv	ved: 02/	21/02 13:	39				
Benzene	ND	5.0	ug/kg	1	2022203	02/22/02	02/22/02	EPA 8260B	
Bromobenzene	ND	5.0	"	**		"	"		
Bromochloromethane	ND	5.0	**	**	"	н	11		
Bromodichloromethane	ND	5.0	"		**		"	Ħ	
Bromoform	ND	5.0	**			17		"	
Bromomethane	ND	5.0		TP	"	ji .	**	"	
n-Butylbenzene	25	5.0	**		+1	н	**	**	
sec-Butylbenzene	100	5.0	11	"	**	47	,,		
tert-Butylbenzene	ND	5.0	"	**		"	**	n	
Carbon tetrachloride	ND	5.0		**	*1	м	11	**	
Chlorobenzene	ND	5.0			"	**	>8	н	
Chloroethane	ND	5.0	+1			**			
Chloroform	ND	5.0		11	**		**	**	
Chloromethane	ND	5.0	•		**		**	**	
2-Chlorotoluene	ND	5.0	11	н	"	**			
4-Chlorotoluene	ND	5.0	"	**			41	14	
Dibromochloromethane	ND	5.0		"	**	**	"	H	
1,2-Dibromo-3-chloropropan		5.0	**		**	11		•	
1,2-Dibromoethane (EDB)	ND	5.0	+1			"	**		
Dibromomethane	ND	5.0		,,	"	**	+*	"	
1,2-Dichlorobenzene	ND	5.0		и	**	41	"		
1,3-Dichlorobenzene	ND	5.0	ii -			"	"	**	
1,4-Dichlorobenzene	ND	5.0	**	41			11	11	
Dichlorodifluoromethane	ND	5.0	*	,,	11	"	"	,,	
I,1-Dichloroethane	ND	5.0		м	**	**	"		
1,2-Dichloroethane	ND	5.0	**			,,	**	**	
1,1-Dichloroethene	ND	5.0	**	**	"		11	Fr	
cis-1,2-Dichloroethene	ND	5.0		H	*1	н		U	
trans-1,2-Dichloroethene	ND	5.0	"		,,	71			
1,2-Dichloropropane	ND	5.0	11	"			11	#	
1,3-Dichloropropane	ND ND	5.0	,,	,,	**		"	,,	
2,2-Dichloropropane	ND	5.0	"	,,	**	41			
1,1-Dichloropropene	ND	5.0	и			"	"	"	
cis-1,3-Dichloropropene	ND	5.0	16	"		ph	**	**	
CIS-1,3-Dictitoropropene	IAD	0.0							

SunStar Laboratories, Inc.

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Leah Beauchaine, Project Manager

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Project: Associated Plating
Project Number: 59-00115133.01
Project Manager: Mauricio Escobar

Reported: 2/27/02

Volatile Organic Compounds by EPA Method 8260B SunStar Laboratories, Inc.

Analyte	Result	porting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B10-30 (T200136-08) Soil	Sampled: 02/21/02 00:00	Receiv	ed: 02/	21/02 13:	39				
trans-1,3-Dichloropropene	ND	5.0	ug/kg	1	2022203	02/22/02	02/22/02	EPA 8260B	
Ethylbenzene	ND	5.0	*1	11	**	**	11	**	
Hexachlorobutadiene	ND	5.0	**	11	**		**	**	
Isopropylbenzene	210	5.0	"	11	+7	**	**	"	
p-Isopropyltoluene	ND	5.0		**	H		n	**	
Methylene chloride	ND	5.0	*1	11	"	**	+	**	
Naphthalene	780	5.0	**	**	**	41	**		
n-Propylbenzene	270	5.0	*1	н		**	**		
Styrene	ND	5.0	**	н	"	**			
1,1,2,2-Tetrachloroethane	ND	5.0	41	н)-	**			
1,1,1,2-Tetrachloroethane	ND	5.0	**	н	"	**			
Tetrachloroethene	ND	5.0	*1	н	"	"	**		
Toluene	ND	5.0	11	H		**		44	
1,2,3-Trichlorobenzene	ND	5.0	41	**		"	"	**	
1,2,4-Trichlorobenzene	ND	5.0	41	P1	u		**	41	
1,1,2-Trichloroethane	ND	5.0	**	"			**	**	
1,1,1-Trichloroethane	ND	5.0	41	,,	н		11	11	
Trichloroethene	ND	5.0	11	v	"		11	11	
Trichlorofluoromethane	ND	5.0	**	"	"	"	11	41	
1,2,3-Trichloropropane	ND	5.0	**	"	41		- 10	н	
1,3,5-Trimethylbenzene	ND	5.0	**	"	41	"	**	"	
1,2,4-Trimethylbenzene	ND	5.0	**		11	41	**	"	
Vinyl chloride	ND	5.0	"		11	**	"	**	
m,p-Xylene	ND	5.0	**		**	**	**	**	
o-Xylene	ND	5.0			"	**			
Surrogate: Toluene-d8	9	92.0 %	81-	117	"	"	"	"	
Surrogate: 4-Bromofluorobe	enzene	170 %	74-	121	"	,,	"	22	S-H

80-120

112%

SunStar Laboratories, Inc.

Surrogate: Dibromofluoromethane

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Project: Associated Plating Project Number: 59-00115133.01 Project Manager: Mauricio Escobar

Reported:

2/27/02

Volatile Organic Compounds by EPA Method 8260B

SunStar Laboratories, Inc.

		Reporting	75415	-	-3, 1114			·	
Analyle	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
B10-GW (T200136-10) Water	Sampled: 02/21/0	2 00:00 R	eceived	: 02/21/02	13:39				
Benzene	ND	5.0	ug/I	1	2022202	02/22/02	02/25/02	EPA 8260B	
Bromobenzene	ND	5.0	41	"	**	11	**	b)	
Bromochloromethane	ND	5.0	**	19	**	97			
Bromodichloromethane	ND	5.0	**		"	"	**	"	
Bromoform	ND	5.0	"		"	ls.	41	41	
Bromomethane	ND	5.0			"		"	rr	
n-Butylbenzene	ND	5.0		*1	"	44			
sec-Butylbenzene	73	5.0	11	- 11	#	H		**	
ert-Butylbenzene	9.4	5.0	*	"	"		11	**	
Carbon tetrachloride	ND	5.0	"		**	"	**	н	
Chlorobenzene	ND	5.0	"			**	"	"	
Chloroethane	ND	5.0	**	*1	"	"	"		
Chloroform	ND	5.0	11	**	19		**	"	
Chloromethane	ND	5.0	**	"	"	"	**	+1	
2-Chlorotoluene	ND	5.0		"	*	**	"	"	
4-Chlorotoluene	ND	5.0	"	"	"	#	b	11	
Dibromochloromethane	ND	5.0		н	"	н			
,2-Dibromo-3-chloropropane	ND	5.0	11	"	**		**	11	
,2-Dibromoethane (EDB)	ND	5.0	+1	**	"	•		**	
Dibromomethane	ND	5.0	**	"	"	**			
,2-Dichlorobenzene	ND	5.0	"		**	**	"	"	
,3-Dichlorobenzene	ND	5.0		"	17	,	**	**	
,4-Dichlorobenzene	ND	5.0	"	*	11			,,	
Dichlorodifluoromethane	ND	5.0	**	"	н	*1			
,1-Dichloroethane	ND	5.0	"	"	"	"	**	*1	
1,2-Dichloroethane	ND	5.0		**	**		Pr .	**	
,1-Dichloroethene	ND	5.0	4	"	"	**			
cis-1,2-Dichloroethene	ND	5.0	11	*	14	PP .		11	
rans-1,2-Dichloroethene	ND	5.0	"	"	4		**	"	
,2-Dichloropropane	ND	5.0	**	н	**		19		
,3-Dichloropropane	ND	5.0		41	**			**	
2,2-Dichloropropane	ND	5.0	"	н	**	**	"	41	
,1-Dichloropropene	ND	5.0	**	,,		**	**	"	
sis-1,3-Dichloropropene	ND	5.0	**			"	#	n	
rans-1,3-Dichloropropene	ND	5.0	v	. "	11			**	
Ethylbenzene	ND	5.0		*1	+*	**	м		
Iexachlorobutadiene	ND	5.0		**	**	14	n	"	
sopropylbenzene	150	5.0	"		"	"	1†	**	
-Isopropyltoluene	ND	5.0	11		"	**	**	**	
Methylene chloride	ND	5.0	н		41		"	n	
vaphthalene	47	5.0	"	"	**		"	**	

SunStar Laboratories, Inc.

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Ja Bauchine

Project Number: 59-00115133.01 Project Manager: Mauricio Escobar

Reported: 2/27/02

Volatile Organic Compounds by EPA Method 8260B

SunStar Laboratories, Inc.

SunStar Laboratories, Inc.											
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Not		
B10-GW (T200136-10) Water S	ampled: 02/21/0	2 00:00 R	eceived	: 02/21/02	13:39						
n-Propylbenzene	72	5.0	นยู/ไ	1	2022202	02/22/02	02/25/02	EPA 8260B			
Styrene	ND	5.0	"		"	44		11			
I,1,2,2-Tetrachloroethane	ND	5.0		"	**	17	"	#			
1,1,1,2-Tetrachloroethane	ND	5.0	"	U	"	77		**			
Tetrachloroethene	ND	5.0		"	**	**	•	**			
Foluene	ND	5.0	**	41		"		"			
1,2,3-Trichlorobenzene	ND	5.0		"	**	**	ч	**			
1,2,4-Trichlorobenzene	ND	5.0	**	**		"	"	"			
1,1,2-Trichloroethane	ND	5.0		**		p	**	»			
1,1,1-Trichloroethane	ND	5.0	"	ч		,,	a	,,			
Trichloroethene	ND	5.0		**		"					
richlorofluoromethane	ND	5.0	"	41		,,	"				
1,2,3-Trichloropropane	ND	5.0	**	**			14				
1,3,5-Trimethylbenzene	ND	5.0	11	#	**		n	"			
1,2,4-Trimethylbenzene	ND	5.0	**	#			11	**			
Vinyl chloride	69	5.0	+1	**	"		н	н			
n,p-Xylene	ND	5.0	**	**	**		**	**			
-Xylene	ND	5.0	**	"	41		H	**			
Surrogate: Toluene-d8		100 %	86	-115	**	"	20	**			
Surrogate: 4-Bromofluorobenzene		115 %		-115	27	"	"	"			
Surrogate: Dibromofluoromethane		99.8 %		-118	**	.,	,,	,,			
Rinsate 022102 (T200136-11) Wat			00 Re	ceived: 02	/21/02 13:	39					
Benzene	ND	5.0	ug/l	1	2022202	02/22/02	02/22/02	EPA 8260B			
Bromobenzene	ND	5.0		**	н		"				
Bromochloromethane	ND	5.0	"	#	н		"	"			
Bromodichloromethane	ND	5.0	**	#	н		ij	**			
Bromoform	ND	5.0	-11	"	"	"	н	11			
Bromomethane	ND	5.0	11	**	*1		Ħ	11			
n-Butylbenzene	ND	5.0	н	"	**	41	"	H			
sec-ButyIbenzene	ND	5.0	11	*	H	41	**	"			
ert-Butylbenzene	ND	5.0	**		**	11	"	,			
Carbon tetrachloride	ND	5.0	**		"	+1					
Chlorobenzene	ND	5.0	92		**	17		**			
Chloroethane	ND	5.0	"	14		**	"	**			
Chloroform	ND	5.0	**		**	"	"	**			
Chloromethane	ND	5.0	"	"			**	11			
2-Chlorotoluene	ND	5.0	"				#	н			
I-Chlorotoluene	ND	5.0			14		**	**			
Dibromochloromethane	ND	5.0									

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Project: Associated Plating Project Number: 59-00115133.01

Project Manager: Mauricio Escobar

Reported:

2/27/02

Volatile Organic Compounds by EPA Method 8260B

SunStar Laboratories, Inc.

				0144011					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Rinsate 022102 (T200136-11) Water	Sampled: 0	2/21/02 00:	00 Re	ceived: 02	/21/02 13:	39			
1,2-Dibromo-3-chloropropane	ND	5.0	սց/[1	2022202	02/22/02	02/22/02	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	5.0	*		**	"	,,		
Dibromomethane	ND	5.0		"	"	**		н	
1,2-Dichlorobenzene	ND	5.0		**	"	**		n	
1,3-Dichlorobenzene	ND	5.0	*1	17	n	71	**	10	
1,4-Dichlorobenzene	ND	5.0	н	**	**		**		
Dichlorodifluoromethane	ND	5.0	**	, n			**	44	
1,1-Dichloroethane	ND	5.0		4				11	
1,2-Dichloroethane	ND	5.0	"	"	**	**	"	3 2	
1,1-Dichloroethene	ND	5.0		11	#	H	41	D .	
cis-1,2-Dichloroethene	ND	5.0	14	"	"	"	"		
trans-1,2-Dichloroethene	ND	5.0	H	н	b	н	n	14	
1,2-Dichloropropane	ND	5.0	"				н	D	
1,3-Dichloropropane	ND	5.0		11	11	**	IT		
2,2-Dichloropropane	ND	5.0		**	kP .			"	
1,1-Dichloropropene	ND	5.0	**					н	1
cis-1,3-Dichloropropene	ND	5.0	**	p.				"	
trans-1,3-Dichloropropene	ND	5.0	**	"	"	**	11		
Ethylbenzene	ND	5.0		**	11		н	**	
Hexachlorobutadiene	ND	5.0	"	"	**	н	*	N	
Isopropylbenzene	ND	5.0	**					"	
p-Isopropyltoluene	ND	5.0	**	**	41	+1	**		
Methyleue chloride	ND	5.0	"	*1	н			11	
Naphthalene	ND	5.0		**	"	44	4	n	
n-Propylbenzene	ND	5.0	**			**	**		
Styrene	ND	5.0	11		11	•	te .	**	
1,1,2,2-Tetrachloroethane	ND	5.0	**	"	**			"	
1,1,1,2-Tetrachloroethane	ND	5.0		**			"		
Tetrachloroethene	ND	5.0	"			41	**		
Toluene	ND	5.0		,,		**	19	"	1
1,2,3-Trichlorobenzene	ND	5.0	17		11	n	,,	19	
1,2,4-Trichlorobeuzene	ND	5.0	•	11	*			,,	
1,1,2-Trichloroethane	ND	5.0	,,	,,		**	11		
1,1,1-Trichloroethane	ND	5.0		**		11	17	**	
Trichloroethene	ND	5.0			4			H	
Trichlorofluoromethane	ND	5.0	*1	"	и)1	,,	
1,2,3-Trichloropropane	ND	5.0	11	44	**				
1,3,5-Trimethylbenzene	ND	5.0	10	,,	D)	41	*1	"	
1,2,4-Trimethylbenzene	ND	5.0	**	,,		**	,,	- 1 1	
•		5.0			"	"	"		_
Vinyl chloride	ND	5.0			-	-			

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Leah Beauchaine, Project Manager

Page 15 of

Project: Associated Plating
Project Number: 59-00115133.01
Project Manager: Mauricio Escobar

Reported:

2/27/02

Volatile Organic Compounds by EPA Method 8260B SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Rinsate 022102 (T200136-11) Water	Sampled: 0	2/21/02 00:	00 Re	ceived: 0	2/21/02 13:	39			
m,p-Xylene	ND	5.0	ug/l	1	2022202	02/22/02	02/22/02	EPA 8260B	
o-Xylene	ND	5.0	"	"	n	11	11		
Surrogate: Toluene-d8		99.5 %	86	-115	"	,,	**	22	
Surrogate: 4-Bromofluorobenzene		102 %	86-	-115	H	"	"	**	
Surrogate: Dibromofluoromethane		101 %	86-	-118	**	"	"	"	

SunStar Laboratories, Inc.

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Project: Associated Plating Project Number: 59-00115133.01

Project Manager: Mauricio Escobar

Reported:

2/27/02

Extractable Petroleum Hydrocarbons by 8015 - Quality Control SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch 2022205 - EPA 3550B										
Blank (2022205-BLK1)			Prepare	d: 02/22/0	2 Analy:	zed: 02/25/0	2			,
C6-C10	ND	IO mg/kg	•							
C10-C28	ND	10 "								
C28-C40	ND	10 "								
Matrix Spike (2022205-MS1)	Source	: T200136-08	Ргераге	d: 02/22/0:	2 Analy:	zed: 02/25/0	2			
C10-C28	2000	10 mg/kg	-	1500		75-125				
Matrix Spike Dup (2022205-MSD1)	Source	: T200136-08	Prepare	d: 02/22/0	2 Analy:	zed: 02/25/0	2			-
C10-C28	2000	10 mg/kg		1500	,	75-125	0.0	20		

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Leah Beauchaine, Project Manager

Page 17 of 2

Project Number: 59-00115133.01
Project Manager: Mauricio Escobar

Reported:

2/27/02

Volatile Organic Compounds by EPA Method 8260B - Quality Control SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2022202 - EPA 5030 V	Vater MS								
Blank (2022202-BLK1)			Prepare	d & Analy	zed: 02/7	22/02			
Benzene	ND	5.0 ng/l							
Втотореплепе	ND	5.0 "							
Bromochloromethane	ND	5.0 "							
Bromodichloromethane	ND	5.0 "							
Bromoform	ND	5.0 "							
Bromomethane	ND	5.0 "							
1-Butylbenzene	ND	5.0 "							
sec-Butylbenzene	ND	5.0 "							
ert-Butylbenzene	ND	5.0 "							
Carbon tetrachloride	ND	5.0 "							
Chlorobenzene	ND	5.0 "							
Chloroethane	ND	5.0 "							
Chloroform	ND	5.0 "							
Chloromethane	ND	5.0 "							
2-Chlorotoluene	ND	5.0 "							
-Chlorotoluene	ND	5.0 "							
Dibromochloromethane	ND	5.0 "							
-2-Dibromo-3-chloropropane	ND_	50 "		_					
,2-Dibromoethane (EDB)	ND	5.0 "							
Dibromomethane	ND	5.0 "							
,2-Dichlorobenzene	ND	5.0 "							
1,3-Dichlorobenzene	ND	5.0 "							
1,4-Dichlorobenzene	ND	5.0 "							
Dichlorodifluoromethane	ND	5.0 "							
1,1-Dichloroethane	ND	5.0 "							
,2-Dichloroethane	ND	5.0 "							
,1-Dichloroethene	ND	5.0 "							
cis-1,2-Dichloroethene	ND	5.0 "							
rans-1,2-Dichloroethene	ND	5.0 "							
1,2-Dichloropropane	ND	5.0 "							
,3-Dichloropropane	ND	5.0 "							
2,2-Dichloropropane	ND	5.0 "							
,1-Dichloropropene	ND	5.0 "							
is-1,3-Dichloropropene	ND	5.0 "							
rans-1,3-Dichloropropene	ND	5.0 "							
Ethylbenzene	ND	5.0 "							
lexachlorobutadiene	ND	5.0 "							
sopropylbenzene	ND	5.0 "							

SunStar Laboratories, Inc.

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Project: Associated Plating Project Number: 59-00115133.01

Project Manager: Mauricio Escobar

Reported:

2/27/02

Volatile Organic Compounds by EPA Method 8260B - Quality Control SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2022202 - EPA 5030 Wat	ter MS								
Blank (2022202-BLK1)			Prepare	d & Analy	zed: 02/2	22/02			
p-Isopropyltoluene	ND	5.0 ug/l							
Methylene chloride	ND	5.0 "							
Naphthalene	ND	5.0 "							
n-Propylbenzene	ND	5.0 "							
Styrene	ND	5.0 "							
1,1,2,2-Tetrachloroethane	ND	5.0 "							
1,1,1,2-Tetrachloroethane	ND	5.0 "							
Tetrachloroethene	ND	5.0 "							
Toluene	ND	5.0 "							
1,2,3-Trichlorobenzene	ND	5.0 "							
1,2,4-Trichlorobenzene	ND	5.0 "							
1,1,2-Trichloroethane	ND	5.0 "							
1,1,1-Trichloroethane	ND	5.0 "							
Trichloroethene	ND	5.0 "							
Trichlorofluoromethane	ND	5.0 "							
1,2,3-Trichloropropane	ND	5.0 "							
1,3,5-Trimethylbenzene	ND	5.0 "							
1,2,4-Trimethylbenzene	ND	5.0 "							
Vinyl chloride	ND	5.0 "							
m,p-Xylene	ND	5.0 "							
o-Xylene	ND	5.0 "							
Surrogate: Toluene-d8	41.9	tr	40.0		105	86-115			
Surrogate: 4-Bromofluorobenzene	39.7	,,	40.0		99.2	86-115			
Surrogate: Dibromofluoromethane	37.9	"	40.0		94.8	86-118			
LCS (2022202-BS1)			Prepare	d & Analy	zed: 02/2	22/02			
Benzene	104	5.0 ug/l	100	,	104	75-125			
Chlorobenzene	86.5	5.0 "	100		86.5	75-125			
1,1-Dichloroethene	112	5.0 "	100		112	15-125			
Toluene	95.2	5.0 "	100		95.2	75-125			
Trichloroethene	95.4	5.0 "	100		95.4	75-125			
Surrogate: Toluene-d8	40.8	,,	40.0		102	86-115			
Surrogate: 4-Bromofluorobenzene	40.3	er	40.0		101	86-115			
Surrogate: Dibromofluoromethane	41.9	"	40.0		105	86-118			
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Leah Beauchaine, Project Manager

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Project Number: 59-00115133.01 Project Manager: Mauricio Escobar

Reported:

2/27/02

Volatile Organic Compounds by EPA Method 8260B - Quality Control SunStar Laboratories, Inc.

Analyte	Result	Repoπing Limit Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2022202 - EPA 5030 Water	MS								
Matrix Spike (2022202-MS1)	Source	: T200136-11	Prepare	d & Analyz	zed: 02/2	22/02			
Benzene	110	5.0 ug/l	100	ND	110	75-125			
Chlorobenzene	103	5.0 "	100	ND	103	75-125			
,1-Dichloroethene	124	5.0 "	100	ND	124	75-125			
Toluene	103	5.0 "	100	ND	103	75-125			
richloroethene	104	5.0 "	100	ND	104	75-125			
Surrogate: Toluene-d8	39.7	"	40.0		99.2	86-115			
Surrogate: 4-Bromofluorobenzene	38,4	"	40.0		96.0	86-115			
Surrogate: Dibromofluoromethane	38.7	"	40.0		96.8	86-118			
Matrix Spike Dup (2022202-MSD1)	Source	: T200136-11	Prepare	d & Analyz	zed: 02/2	2/02			
Benzene	101	5.0 ug/l	100	ND	101	75-125	8.53	20	
Chlorobenzene	104	5.0 "	100	ND	104	75-125	0.966	20	
,1-Dichloroethene	122	5.0 "	100	ND	122	75-125	1.63	20	
Coluene	100	5.0 "	100	ND	100	75-125	2.96	20	
Trichloroethene	96.5	5.0 "	100	ND	96.5	75-125	7.48	20	
Surrogate: Toluene-d8	39.8	**	40.0		99.5	86-115			
Surrogate: 4-Bromofluorobenzene	39.1	"	40.0		97.8	86-115			
urrogate: Dibromofluoromethane	40.2	"	40.0		100	86-118			
Batch 2022203 - EPA 5035 Soil M	S								
Blank (2022203-BLK1)			Prepare	d: 02/22/02	2 Analya	zed: 02/25/02			
Benzene	ND	5.0 ug/kg	-						
Bromobenzene	ND	5.0 "							
3romochloromethane	ND	5.0 "							
Bromodichloromethane	ND	5.0 "							
Bromoform	ND	5.0 "							
Bromomethane	ND	5.0 "							
ı-Butylbenzeoe	ND	5.0 "							
ec-Butylbenzene	ND	5.0 "							
ert-Butylbenzeoe	ND	5.0 "				•			
Carbon tetrachloride	ND	5.0 "							
Chlorobenzene	ND	5.0 "							
Chloroethane	ND	5.0 "							
Chloroform	ND	5.0							
Chloromethaoe	ND	5.0 "							
-Chlorotoluene	ND	5.0 "							
-Chlorotoluene	ND	5.0 "							

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Project: Associated Plating Project Number: 59-00115133.01

Project Manager: Mauricio Escobar

Reported:

2/27/02

Volatile Organic Compounds by EPA Method 8260B - Quality Control SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2022203 - EPA 5035 So	il MS								
Blank (2022203-BLK1)			Ртераге	d: 02/22/0	2 Analy	zed: 02/25/0	2		
Dibromochloromethane	ND	5.0 ug/kg							
1,2-Dibromo-3-chloropropane	ND	5.0 "							1
1,2-Dibromoethane (EDB)	ND	5.0 "							
Dibromomethane	ND	5.0 "							
I,2-Dichlorobenzene	ND	5.0 "							
1,3-Dichlorobenzene	ND	5.0 "							
I,4-Dichlorobenzene	ND	5.0 "							
Dichlorodifluoromethane	ND	5.0 "							
1,1-Dichloroethane	ND	5.0 "							
1,2-Dichloroethane	ND	5.0 "							
1,1-Dichloroethene	ND	5.0 "							
cis-1,2-Dichloroethene	ND	5.0 "							
rans-1,2-Dichloroethene	ND	5.0 "							
1,2-Dichloropropane	ND	5.0 "							
1,3-Dichloropropane	ND	5.0 "							
2,2-Dichloropropane	ND	5.0 "							
1,1-Dichloropropene	ND	5.0 "							
cis-1,3-Dichloropropene	ND	5.0 "							
trans-1,3-Dichloropropene	ND	5.0 "							
Ethylbenzene	ND	5.0 "							
Hexachlorobutadiene	ND	5.0 "							
isopropylbenzene	ND	5.0 "							
p-Isopropyltoluene	ND	5.0 "							
Methylene chloride	ND	5.0 "							
Naphthalene	ND	5.0 "							
n-Propylbenzene	ND	5.0 "							
Styrene	ND	5.0 "							
1,1,2,2-Tetrachloroethane	ND	5.0 "							
1,1,1,2-Tetrachloroethane	ND	5.0 "							
Tetrachloroethene	ND	5.0 "							
Toluene	ND	5.0 "							
I,2,3-Trichlorobenzene	ND	5.0 "							
1,2,4-Trichlorobenzene	ND	5.0 "							
1,1,2-Trichloroethane	ND	5.0 "							
I,1,1-Trichloroethane	ND	5.0 "							
Trichloroethene	ND	5.0 "							
Trichlorofluoromethane	ND	5.0 "							
1,2,3-Trichloropropane	ND	5.0 "							

SunStar Laboratories, Inc.

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Leah Beauchaine, Project Manager

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Project: Associated Plating Project Number: 59-00115133.01

Project Manager: Mauricio Escobar

Reported:

2/27/02

Volatile Organic Compounds by EPA Method 8260B - Quality Control SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit Units		Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2022203 - EPA 5035 Soil	MS								
Blank (2022203-BLK1)			Prepared:	02/22/02	Analy	zed: 02/25/02	!		
1,3,5-Trimethylbenzene	ND	5.0 ug/kg							
1,2,4-Trimethylbenzene	ND	5.0 "							
Vinyl chloride	ND	5.0 "							
m,p-Xylene	ND	5.0 "							
o-Xylene	ND	5.0 "							
Surrogate: Toluene-d8	41.9	"	40.0		105	81-117			
Surrogate: 4-Bromofluorobenzene	39.7	"	40.0		99.2	74-121			
Surrogate: Dibromofluoromethane	37.9	Ir	40.0		94.8	80-120			
LCS (2022203-BS1)			Prepared:	02/22/02	Analy	zed: 02/25/02			
Benzene	104	5.0 ug/kg	100		104	75-125			
Chlorobenzene	86.5	5.0 "	100		86.5	75-125			
[,[-Dichloroethene	112	5.0 "	100		112	15-125			
Toluene	95.2	5.0 "	100		95.2	75-125			
Trichloroethene	95.4	5.0 "	100		95.4	75-125			
Surrogate: Toluene-d8	40.8	"	40.0		102	81-117			
Surrogate: 4-Bromofluorobenzene	40.3	"	40.0		101	74-121			
Surrogate: Dibromofluoromethane	41.9	"	40.0		105	80-120			
LCS Dup (2022203-BSD1)			Prepared:	02/22/02	Analy	zed: 02/25/02			
Benzene	101	5.0 ug/kg	100		101	75-125	2.93	20	
Chlorobenzene	98.3	5.0 "	100		98.3	75-125	12.8	20	
1,1-Dichloroethene	101	5.0 "	100		101	15-125	10.3	20	
Toluene	96.3	5.0 "	100		96.3	75-125	1.15	20	
Trichloroethene	94.7	5.0 "	100		94.7	75-125	0.736	20	
Surrogate: Toluene-d8	38.8	"	40.0		97.0	81-117			
Surrogate: 4-Bromofluorobenzene	38.8	"	40.0		97.0	74-121			
Surrogate: Dibromofluoromethane	40.1	"	40.0		100	80-120			

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

URS Corporation	Project: Associated Plating	
911 Wilshire Boulevard	Project Number: 59-00115133.01	Reported:
Los Angeles CA, 90017	Project Manager: Mauricio Escobar	2/27/02

Notes and Definitions

S-HI High surrogate recovery was confirmed as a matrix effect by a second analysis.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

SunStar Laboratories, Inc.

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Leah Beauchaine, Project Manager

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LABORATORY REPORT

Prepared For: SunStar Laboratories

3002 Dow Avenue, Suite 406

Tustin, CA 92780

Attention: John Shepler Project: Associated Plating Sampled: 11/01/01 Received: 11/02/01

Reported: 11/09/01

This laboratory report is confidential and is intended for the sole use of Del Mar Analytical and its client. This entire report was reviewed and approved for release.

CA ELAP Certificate #1197 AZ DHS License #AZ0428

el Mar Analytical, Irvine Jim Hatfield

roject Manager



2852 Alton Ava., Irvine, CA 92606 1014 E. Cooley Dr., Suite A, Colton, CA 92324 16525 Sherman Way, Suite C-11, Van Nuys, CA 92406 9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-9596 FAX (858) 505-9689 (480) 785-0043 FAX (480) 785-0851

SunStar Laboratories

3002 Dow Avenue, Suite 406

Tustin, CA 92780 Attention: John Shepler Project ID: Associated Plating

Report Number: IKK0099

Sampled: 11/01/01 Received: 11/02/01

		INOR	GANICS						
Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers	
			mg/kg	mg/kg					
Sample ID: IKK0099-01 (BG3-0.5' - Soil)									
Total Cyanide	EPA 9014	I1K0748	0.50	ND	1	11/7/01	11/8/01		
Sample ID: 1KK0099-02 (BG3-5' - Soil)									
Total Cyanide	EPA 9014	I1K0748	0.50	ND	1	11/7/01	11/8/01		
Sample ID: IKK0099-03 (BG3-10' - Soil)									
Total Cyanide	EPA 9014	I1K0748	0.50	ND	1	11/7/01	11/8/01		
Sample ID: IKK0099-04 (BG2-0.5' - Soil)									
Total Cyanide	EPA 9014	IIK0748	0.50	ND	1	11/7/01	11/8/01		
Sample ID: IKK0099-05 (BG2-5' - Soil)									•
Total Cyanide	EPA 9014	IIK0748	0.50	ND	1	11/7/01	11/8/01		
Sample ID: IKK0099-06 (BG2-9' - Soil)									
Total Cyanide	EPA 9014	IIK0748	0.50	ND	1	11/7/01	11/8/01		-
Sample ID: IKK0099-07 (BG1-0.5' - Soil)									
Total Cyanide	EPA 9014	I1K0748	0.50	ND	1	11/7/01	11/8/01		
Sample ID: IKK0099-08 (BG1-5' - Soil)									_
Total Cyanide	EPA 9014	I1K0748	0.50	ND	1	11/7/01	11/8/01		



2852 Allon Ave., Irvine, CA 92606 1014 E. Cooley Dr., Suite A. Colton, CA 92324 16525 Sherman Way, Suite C-11, Van Nuye, CA 92406 9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 9830 South 51st St., Suite 8-120, Phoenix, AZ 85044 (949) 261-1022 FAX (949) 251-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-9596 FAX (858) 505-9689 (480) 785-0043 FAX (480) 785-0851

SunStar Laboratories

3002 Dow Avenue, Suite 406

Tustin, CA 92780 Attention: John Shepler Project ID: Associated Plating

Sampled: 11/01/01

Report Number: IKK0099

Received: 11/02/01

		INOR	GANICS	3				
— Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
L company			mg/kg	mg/kg				
Sample ID: IKK0099-09 (B1-0.5' - Soil) Total Cyanide Sample ID: IKK0099-10 (B1-5' - Soil)	EPA 9014	I1K0748	0.50	ND	1	11/7/01	11/8/01	
Total Cyanide	EPA 9014	I1K0748	0.50	ND	1	11/7/01	11/8/01	



2852 Alton Ave., Irvine, CA 92606 1014 E. Cooley Dr., Suite A. Colton, CA 92324 16525 Sherman Way, Suite C-11, Van Nuys, CA 92406 9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-9596 FAX (858) 505-9689 (480) 785-0043 FAX (480) 785-0851

SunStar Laboratories

3002 Dow Avenue, Suite 406

Tustin, CA 92780 Attention: John Shepler Project ID: Associated Plating

Report Number: IKK0099

Sampled: 11/01/01 Received: 11/02/01

METHOD BLANK/QC DATA

INORGANICS

	I	Reporting			Source	No.	%REC		RPD	Data
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifiers
Batch: I1K0748 Extracted: 11/07/0	L									
Blank Analyzed: 11/08/01 (I1K0748	-BLK1)									
Total Cyanide	ND	0.50	mg/kg							
LCS Analyzed: 11/08/01 (I1K0748-)	BS1)									
Total Cyanide	10.0	0.50	mg/kg	10.0		100	85-115			
Matrix Spike Analyzed: 11/08/01 (I	1K0748-MS1	l)			Source:	IKK009	9-01			
Total Cyanide	9.55	0.50	mg/kg	10.0	ND	94.5	70-115			
Matrix Spike Dup Analyzed: 11/08/0	01 (I1K0748	-MSD1)			Source:	IKK009	9-01			
Total Cyanide	9.45	0.50	mg/kg	10.0	ND	93.5	70-115	1.05	15	

Del Mar Analytical, Irvine Jim Hatfield

Project Manager



2852 Alton Ave., Irvine, CA 92506 1014 E. Cooley Dr., Suile A, Colton, CA 92324 16525 Sherman Wey, Suite C-11, Van Nuys, CA 92406 9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (949) 261-1022 FAX (949) 261-1228 (909) 370-4667 FAX (909) 370-1046 (818) 779-1844 FAX (818) 779-1843 (858) 505-9596 FAX (858) 505-9689 (480) 785-0043 FAX (480) 785-0851

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Tustin, CA 92780 Attention: John Shepler Project ID: Associated Plating

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Sampled: 11/01/01 Received: 11/02/01

DATA QUALIFIERS AND DEFINITIONS

ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.

NR Not reported.

RPD Relative Percent Difference

Del Mar Analytical, Irvine

Jim Hatfield Project Manager

	CHA	IN-	OF-	CUS	TODY RE	CORD		WHITE CO	- 1.7	inal (Accompa				COPY-Collector	PINK COPY-Pro	oject M	anager
Boring or Well Number	Sample Number	Depth	Time	Sample Type	Container Type	kuris (8) (8) (8) (8) (8) (8) (8) (8) (8) (8)					2/0/2/0		A STORY		3075	Total Number Of Containers	Laboratory Note Number
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CHAIN-UT-CUSTUDY HECURD

1600 WHEL (2) 1 WITEN/(3) WA

Container Type

(3) ENLENE/Acomo

Sample

Type

Surc

Time

1540

1550

Depth

5

NA

Boring or

Well

BG

EB

Number Number

Sample

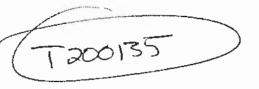
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WHITE COPY-Original (Accompanies Samples) YELLOW COPY-Collector PINK COPY-Project Manager at the popular Sel Childs Total Number Of Containers Laboratory Note Number Job Strikery 3075 FIELD NOTES: 31 19 TYPECCHUSEN STRIVILLE . . 20 21

ELINOUISHED BY: (Signature) DATE/TIME 1/1/0/ 163 ELINOUISHED BY: (Signature) DATE/TIME 1/12/4 (0 ELINOUISHED BY: (Signature) DATE/TIME	AECEIVED BY: (Signature	Biguris	in Installicani aus	greceoep by	UES AP-
NALYTICAL LABORATORY: SUNSO BORATORY CONTACT: DOHAL SHE BM CONTACT: M. ESUISMI DAMES & MOORE	a Lon-	JOB NO.: 59 - 00/	15133.01 TASTO ASSOCIATED PLANTS	neb	SHEET Z OF Z

Vironex Inc. 3002 Dow Ave, Ste. 406 Tustin, CA 92780 1-800-847-6639

Chain of Custody Record



Address: 911 Wilshire Blad. Page: Project Name: HSS as rated Plating
Collector: JSD Cli Fax: (213) 976- 245 6 Client Project #: 57-00 115/ 33.0/ Phone: (213) 996-2206 Project Manager: Mauricio Escular Proposal #: Verbal between John Shepler and
Maurisia Exceler Batch #: EPA 6010/7000 Title 22 Metals EPA 8015M (gasoline) EPA 8015M (diesel) Laboratory ID EPA 8260 8 EPA 418.1 EPA 8270 EPA 8020 ₽ Total i Sample Container Date Sampled Time Type Type Comments Sample ID B5-2/20/0-0920 TIE visible staining dilution ne. Encore + steer 0925 B55-1 02 B5-5 03 0935 B4-6 B4-1 Staining Senglezis not OH 5945 0950 15-1.5 B3-1.5 Visible + tening wet runthe 1000 1010 08 Bil-0. 1630 455 3 Encor bu- 3 1040 B11-7 1105 B12-0.5 12 B212-0.5 116 B12-5 1120 12-7 1130 H10 543 40 ALVA 1150 Rinsate 022002 Received by: (signature) Date / Time Total # of containers 51 Previously agreed pricing between Y John Shepher and Mauricia Escaber Relinquished by: (signature) Date / Time Chain of Custody seals Y/M/N Date / Time Relinquished by: (signature) Received by: (signature) Date / Time Seals intact? Y/N/NA Please Received good condition/cold. Call Maunitio Escabarto Confirm Received by: (signature) Date / Time Date / Time/ 2/20/02 1220 Charges before invoiting Turn around time: Standord 1220 Sample disposal Instructions:

Vironex Inc. 3002 Dow Ave, Ste. 406 Tustin, CA 92780

Chain of Custody Record

T200136

1-000-047-0059																			
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Phone: (217) 996 - 2200	•	Fax: (20)	1) 996- 2	2456				Col	lecto	or:	J:	SP	,	w c:}		•	Clier	nt Project#:	
Project Manager: Maurice									ch#								Proc		inale e
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Complet ID	Date Sampled	Time	Sample	Container	EPA 8010	EPA 8020	EPA 8260 8 / 50 35	EPA 8270	EPA 418.1	EPA 8015M (gasoline)	EPA 8015M (diesel)	EPA 6010/7000 RCRA (8) Metals	Title 22 Met	3015, Carten, Chain, Fell Roye		Laboratory ID #	Preservative		✓ Total # of containers
Sample ID	2 21 62	Time O%14	Type S•∤\	Type	Ш	Щ	Ш	Ш	Ш	ш	Ш	Ш	Ш	- 0	-	01	ů.	Comments	튛
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Relinquished by: (signature)	Date / Ti	me	Received b	y: (signature)			Date	e/T	ime				Se	als inta	ct? Y/I	(()		(e.g. 8260 B1505= \$95). (al	1
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